4.4 Distribution and Agricultural Produce Processing

4.4.1 Distribution

(1) Development Target

(a) Role of distribution

From the aspects of production and consumption, agricultural produce is characterized by the following:

(i) Production:

- 1) Various kinds of agricultural produce are produced by small farmers scattered all over the country,
- 2) Produce is generally not suitable for storage and more difficult than industrial products to standardize, and
- 3) Planned production is difficult because crops are sensitive to natural conditions such as weather, water availability, etc.

(ii) Consumption:

- 1) Consumers require stable and daily supplies of small amounts of a variety of fresh agricultural produce, and
- 2) Consumers normally purchase produce at nearby retailers, etc.

The role of distribution is to connect production and consumption in a way acceptable to both producers and consumers. The function of distribution can be categorized as follows:

physical distribution which collects various agricultural produce at numerous locations, and delivers the same to retailers after classifying and packing and

- price determination to maintain well-balanced relationships between supply and demand.

The role of distribution will become more vital in the future as agricultural production increases and greater quantities of fresh food are shipped from production sites.

(b) Present condition of the distribution system in Oman

One of the problems in the distribution structure in Oman is the fact that the price determination system does not function well enough to meet the balance of supply and demand. In order for this function to work fairly, it is strongly recommended that wholesale markets be established where the distribution function and price formation function operate under certain rules.

In Oman, there is no adequate wholesale market at present. In order to provide a stable supply of food for the nation, the wholesale market, in general, must supply the producers with a stable and dependable place for selling their agricultural produce and supply retailers, etc., with a stable place for purchasing it. Accordingly, the establishment of a wholesale market is indispensable for the distribution policy in Oman. However, a drastic change in that structure will cause confusion in the distribution of agricultural produce. It is important that the government formulate and carry out the policy paying particular attention to step-by-step development and the co-existence of the local market distribution system and the main channel distribution system to main consumption sites.

Secondly, low-level organizations for collection and delivery have not been adequately developed in Oman. Systematic collection and shipment at 18 distribution and/or collection centers in the country are only carried out by PAMAP, and such distribution volume was less than 10% of the whole production of agricultural produce in 1988. With regards to private shipments, the produce is shipped without any plan, communication, or thought about the relationship between

products scheduled for shipment. Moreover, each shipment is quite small and the grade of the produce varies significantly due to the absence of appropriate standardization criteria.

Such circumstances make it difficult to carry out planned shipments which reflect the trends of demand, and to provide consumers with a stable supply of agricultural produce. Accordingly, it is necessary to promote distribution efficiency of main distribution channels and strengthen shipping organizations for farmers.

Thirdly, the statistical information for adjusting the relationship between demand and consumption has not been satisfactorily compiled; although some data are available, such as the statistics regarding production of agricultural produce from MAF, the distribution of agricultural produce from PAMAP, and imported and exported agricultural produce from ROP. But the statistical data for consumption and adjustment between supply and demand are not available.

Accordingly, statistical information which will clarify the present situation with regard to production, distribution and consumption is urgently required. Based on this information, the future demand for agricultural produce should be forecast. It is imperative to produce and supply agricultural produce consistently by referring to the planted crops and their areas, as well as to the date for planting and harvesting.

(c) Basic course to follow towards future distribution

Since agricultural produce is essential for everyday life, price stability, promotion of distribution efficiency, and a stable supply of products are inevitable issues. Along with these issues, the improvement of the existing distribution system, particularly in the following areas, is most essential:

- to establish a wholesale market which contributes to the

formation of fair wholesale prices and to the smooth circulation of agricultural produce, according to the increase in agricultural production for the next 10 years,

- to promote well-balanced supply and demand relationships based on the improvement of the existing statistical information system, with respect to production, distribution and consumption,
- to promote distribution efficiency in main distribution channels to main consumption center sites, and
- to strengthen low-level shipping organizations for farmers.

(d) Role of PAMAP

PAMAP was established for the following reasons:

- to encourage the Omani farmers to increase their production of fruits, vegetables and other agricultural crops by creating a body to market such products,
- to ensure the availability of such products in the local market, in the required quantities, and at reasonable prices.

In Oman, as well as in public distribution organizations like PAMAP, various private wholesale traders actively participate in distribution services. In order to achieve a favorable co-existence between PAMAP and the private traders, without discouraging private activities, they need to cooperate with each other and to supplement each others' functions.

With the increase of agricultural production and the amount of agricultural products entering the market, it becomes necessary to clearly delineate the roles of the private and public sectors.

Under its current national development planning, the Oman

Government has included stimulation of private sector participation in economic activity as a basic policy. The role of the private sector is particularly important in the case of distribution. However, policy in this regard must strive for balance between the inherently conflicting interests of the producer pursuing profit on the retail level and therefore, seeking to sell at the highest price possible, and the consumer seeking to purchase at the lowest price possible.

In this regard, government policy must seek a well-balanced development of the distribution sector connecting the producer of agricultural products with the consumer. This will require coordination of the public agencies participating in the sector, and creation of new organizations where necessary.

Table 4.4.1 depicts the roles of the public and private sectors in distribution as well as a development schedule for the sectors.

The current duties of PAMAP are essentially the same as the private wholesalers, except PAMAP does not seek a profit. However, an expansion of PAMAP activities in the future will require corresponding strengthening and expansion of its facility, staff and budget resources. A growing potential for friction with the private sector also emerges.

In general, there are relatively inefficient aspects of personnel arrangement and financing, inherent in a public distribution organization. However, it has at the same time the capacity to provide satisfactory, beneficial services. Thus, PAMAP will be able to play an important role, particularly in the following areas:

- constructing, supervising, and operating and/or supporting the wholesale market.
- upgrading the collection and distribution system of main channels according to the increase in agricultural production,

Table 4.4.1 Future Role of Organization Concerning Distribution Sector

CONSTRUCTION STAGE OPERATION STAGE 1995-2000	∆ ON CONSIGNMENT OR PURCHASE ∆ ON CONSIGNMENT OR PURCHASE ∆ OF LOT PROJECT	C (CONSTRUCTION & OPERATE) C (CONSTRUCTION & OPE	O (PRODUCE & EGGS) O (PRODUCE & EGGS) O O O O	00	0 0	0	000	△ (AUCTION OR NEGOTIATED MARKET	ANIZATION 14.TO PURCHASE AND DISTRIBUTE ON SYSTEM C & D CENTER SOUK LER KLOW-LEVEL SHIPPING ORGANIZATION FARMER
PRESENT INTRODUCTION STAGE 1890 1991-1894	O (EXPANSION WITH DECREE) O (EXPANSION WITH DECREE) O (EXPANSION WITH DECREE)		O (PRODUCE & EGGS)	00	0 0	0	000	4	OPERATION STAGE 6. TO IMPLEMENT LOW-LEVEL SHIPPING ORGANIZATION 7. TO IMPLEMENT NATION-WIDE DISTRIBUTION SYSTEM
ROLE	1.TO PURCHASE AND DISTRIBUTE 2.TO SELL 3.TO PROCESS 4 TO TREELE	SUPERV	7.TO IMPLEMENT NATION-WIDE DISTRIBUTION SYSTEM 8.TO PROMOTE BALANCE 9.TO IMPLEMENT PRICING POLICY	10.TO MAKE STRATEGY 11.TO COORDINATE AMONG ORGANIZATIONS CONCERNED	12.TO CONDUCT NUTRITION SURVEY 13.TO CONSTRUCT RETAIL MARKETS	14.TO PURCHASE AND DISTRIBUTE	15.TO SELL 16.TO PROCESS 17.TO IMPORT AN	18.TO OPERATE W/M *	TO PURCHASE AND DISTRIBUTE AT PRESENT NUSCAT NUSCAT X X X X X X X X X X X X X
ORGANIZATION		PUBLIC PAMAP SECTOR		MAF	MRH		PRIVATE SECTOR		

and

- strengthening shipping organizations for farmers according to the increase in distribution.

Table 4.4.2 shows the present and future role of PAMAP. Figure 4.4.1 shows PAMAP's future organization structure in 2000.

(e) Development Target Values

As indicated in Chapter 2 (Prospects for Demand and Production of Agricultural Products) of Volume 5, production of vegetables and fruits (excluding dates) by 1995 will have increased 50% over production in 1988, and 80% by 2000. Corresponding increases in consumption by 1995 and 2000 over that in 1988 will be by 38% and 62% respectively.

Total agricultural product volume handled by PAMAP in 1988 was 18,000 tons, or 8% of the total. As can be seen, the bulk of distribution is carried out in the private sector.

In the future as production and consumption both continue to grow, it will be necessary to expand the administration role of the public sector in distribution to establish an efficient structure that balances producer and consumer interests.

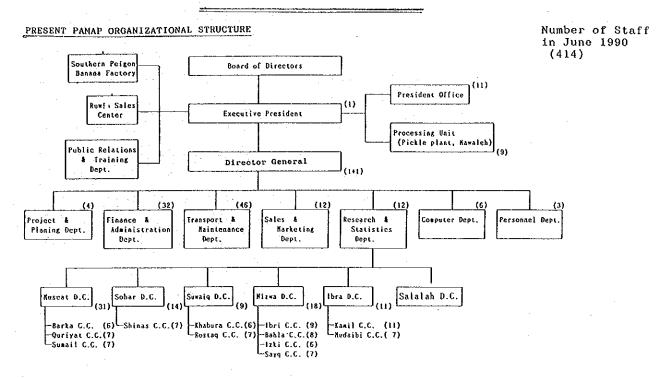
By 2010, over half the population of the Sultanate will be concentrated in the 6 urban centers of Muscat, Salalah, Sohar, Sur, Nizwa and Ibri. It will be particularly necessary to establish requisite distribution facilities for efficient flow of products into these areas. In Annex Table 4.4.1, locations for wholesale markets, major distribution facilities and farmer level collection and shipment organizations are examined. Effective distribution will require that the projects for the foregoing focus on properly connecting to the above-mentioned major population centers.

Study of appropriate wholesale market format, training of staff,

Table 4.4.2 Future Role of PAMAP

1)TO ENCOURAGE THE OMANI THEIR PRODUCTION OF FRI OTHER AGRICULTURAL CROI TO MARKET SUCH PRODUCT 2)TO ENSURE THE AVAILABI IN THE LOCAL MARKET, II AND AT REASONABLE PRICI 1)TO PURCHASE AGRICULTUR CENTERS BY THE FARMERS TO THE CONSUMER AREA 2)TO SELL PRODUCE THROUG 3)MANAGE AGRICULTURAL PRO
I FARMERS TO INCREASE RUITS, VEGETABLES AND DPS BY CREATING A BODY IN INITY OF SUCH PRODUCTS IN THE REQUIRED QUANTITIES CES RAL PRODUCE BROUGHT INTO S AND TO DISTRIBUTE IT GH EACH CENTER ROCESSING FACILITIES
RAL PRODUCE BROUGHT S AND TO DISTRIBUTE GH EACH CENTER ROCESSING FACILITIES
CS FOR AGRICULTURAL

PAMAP ORGANIZATION



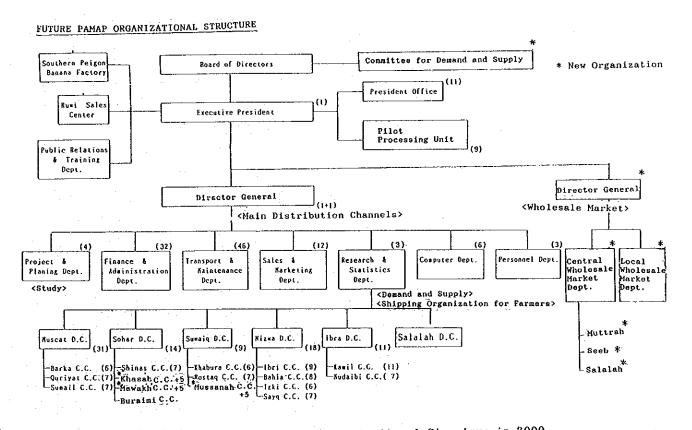


Figure 4.4.1 PAMAP Future Organizational Structure in 2000

public notification about markets, etc. must be performed to establish wholesale markets given the lack of Omani experience in this area. Rushing must be avoided.

A target by 2010 of 50% handling of all agricultural produce by wholesale markets was studied. Table 4.4.3 shows the market scale for each urban center. The study of the scale for local wholesale markets is as shown in Table 5.2.8. The total planned amount of agricultural products to be handled in the wholesale markets in the 6 cities by 2000 is 94,000 tons (see Table 4.4.4). This would be 25% of total agricultural product volume (see Table 4.4.5). These are considered appropriate targets for the envisioned modernization of the distribution system in Oman over the next 10 years.

(2) Development Strategy

A conceptual sketch for the development target and the strategy for the distribution sector are depicted in Figure 4.4.2.

(a) Establishment of the wholesale market

The staged development approach should be employed to smoothly transform the present distribution system into the expected future system, which will operate through the wholesale market. This market should be established on the premise that various kinds of agricultural produce are collected from numerous production sites in the country. The methods of collection can be classified as follows:

- low-level shipment, or short-distance transportation from farm-gate to town, and
- Nation-wide distribution, or long-distance transportation from towns to urban areas as main distribution channels.

The improvement of both of the above is quite essential for the physical distribution of agricultural produce in the market. The wholesale market should be established gradually, through the

Table 4.4.3 Establishment of Wholesale Market

	MUSCAT	AT	JANUBIYA	BATINAH	NAII	SHARQIYA	JIYA	DAKHLIYA	LIYA	DHAHIRA	IRA	TOTAL
MUTTRAH	H	SEEB	SALALAH	SOHAR	RUSTAO	SUR	IBRA	NIZWA	SAMAIL	IBRI	BURAIMI	
248,	248,000 174	,000	190,000	143,000	101,000	190,000 143,000 101,000 128,000 44,000 126,000 88,000	44,000	126,000	88,000	175,000	93,000	175,000 93,000 1,510,000
	179	126	137	126	91	91	32	91	64	126	64	
						*						
ω,	6,185	4,	4,862	4,523	3,278	3,278	1,334	1,334 3,278 2,412	2,412	4,523	2,412	40,608
	7500	5,500	5,750	5,500	4,000	4,000	1,750	4,000	3,000	5,500	3,000	42,000
33	30000	22,000	23,000	22,000	16,000	16,000		6,800 16,000 12,000	12,000	22,000	12,000	167,800
										4 .3 		
T	1,995	1,997	1,997	1,998	2,002	l	2,000 2,002	2,000	2,002	1,998	2,002	
2	2,527	1,845	1,979	1,844	1,339	1,339	551	1,339	686	1,844	989	16,585
ĺ						***************************************						

Table 4.4.4 Dealing Volume in Wholesale Market in 2000

	Δ,	OPULA!	POPULATION NUMBER	83
CENTRAL W/M	3 PLACES		612,000	29%
	(MUTTRAH, SE	EB, S.	SEEB, SALALAH)	
REGIONAL W/M	4 PLACES		572,000	27%
	(SOHAR, SUR,	NIZH	A, IBRI)	
(TOTAL POPULATION IN OMAN IN 2000 : 214,6000)	IN OMAN IN 20	7 : 00	214,6000)	
RATIO VIA W/M	1 50 %	38	67 %	100 %
TOTAL DEALING VOLUME IN W/M (TON)	ME IN W/M (TO	(M)		
	56	,000	94,000 124,000	18,800
	-,	*	**	**

Table 4.4.5 Distribution Volume by PAMAP

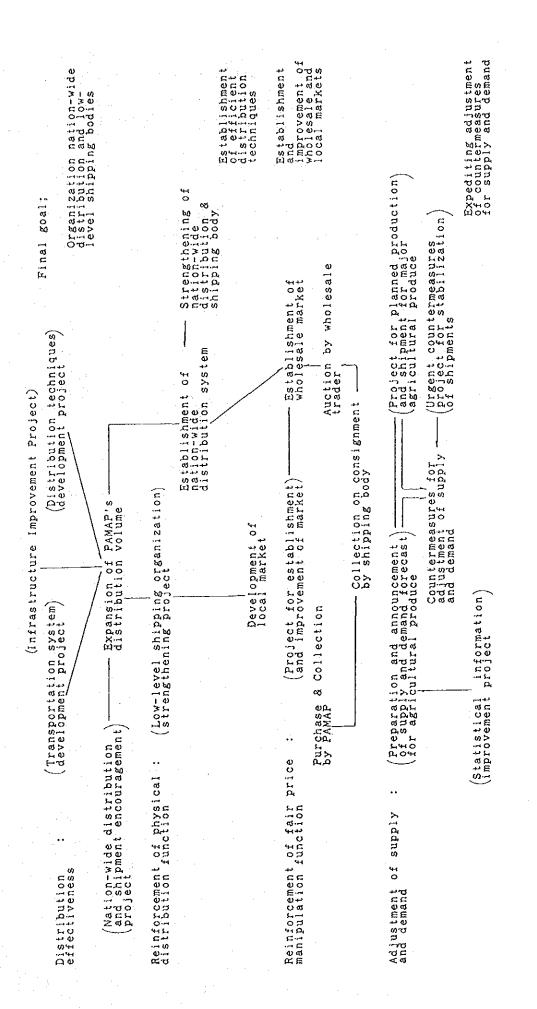
	1988	1995	2000	REMARKS
ITEM	ACTUAL	PROS	PECT	
	(4)	(5)	(6)	
# ALTERNATIVE-1	17,669	38,686	94,504	*
RATIO FOR				
PAMAP/PROD.	8%		25%	
INCREASE IN PAMAP	100%	219%	535%	
			- 1, 15 p	
ALTERNATIVE-2	17,669	51,581	124,745	**
RATIO FOR				3
PAMAP/PROD.	8%		33%	
INCREASE IN PAMAP	100%	292%	706%	
		200		
ALTERNATIVE-3	17,669	80,596	189,008	***
RATIO FOR			1110	
PAMAP/PROD.	8%	25%	50%	
INCREASE IN PAMAP	100%	456%	1070%	
ALTERNATIVE-4	17,669	128,953	283,512	*
RATIO FOR				
PAMAP/PROD.	8%	40%	75%	
INCREASE IN PAMAP	100%	730%	1605%	
ALTERNATIVE-5	17,669	161,192	283,512	
RATIO FOR				
PAMAP/PROD.	8%	50%	75%	
INCREASE IN PANAP	100%	912%	1605%	

Table 4.4.6 Production Amount

	1988	1995	2000
ITEM	ACTUAL	PROSPE	CT
	(1)	(2)	(3)
		1.4	1000
1. YEGETABLES	133,909	172,950	204,005
2.TUBERS	5,900	19,382	22,754
3.FRUITS	167,442	248,768	286,500
DATES	100,000	126,651	145,020
4. SPICES	5,553	7,934	9,777
5.TOTAL	212,804	322,383	378,016
INCREASE IN P	RODUCTION		
1 1 1	100%	151%	1782
	:		

NOTES: ITEM5=1+2+3+4-DATES

SOURCE: JICA TEAM ESTIMATE



Target and Strategy for Distribution Development

Note: Description in parenthesis are development targets

Figure 4.4.2

expansion of, or reorganization of the existing organization and its functions, without affecting the present distribution structure, its personnel, and the farmers. The development should be as follows:

- 1) 1st Stage: To conduct a study on establishing a wholesale market in order to study and expand the distribution volume of PAMAP and to train staff of PAMAP for implementation of the pilot, i.e.:
 - A study is to be conducted to establish a whole-sale market,
 - Expansion of distribution volume required in order for PAMAP to maintain wholesale market functions during the preparatory stage of establishing a market, and
 - To increase the distribution volume, one way would be to facilitate shipment of the crops subsidized with input materials particularly to PAMAP.
- 2) 2nd Stage: To commence the functions of the wholesale market by PAMAP, and to carry out detailed design for the wholesale market.
 - Based on the results of the activities in the 1st Stage, the pilot wholesale market suitable for Oman is to be inaugurated.
- 3) 3rd Stage: To construct and operate the central and local wholesale market by PAMAP and private sector
 - In the beginning, the central wholesale market operation is to be conducted by PAMAP using Muscat and Salalah as the consumption sites for main distribution channels,

- PAMAP is to construct or improve the market facilities in both the central and local wholesale markets,
- Based on the operation method developed by PAMAP in the 2nd Stage, PAMAP provides guidance and supervision to the wholesale traders in order to strengthen physical distribution and price determination functions of the wholesale market, and
- In parallel with the above activities, local markets are operated by the private sector.
- The operating body for each wholesale market will be decided by the result of the study at the 1st stage.
- (b) Measures for adjustment of the supply and demand relationship

The measures to be taken for the adjustment of supply and demand aim to provide stable production and planned delivery of agricultural produce. There are two possibilities: before cultivation and after cultivation and they are categorized and clarified below:

- (i) The government prepares the demand forecast based on the production and consumption trends, and announces it to the farmers for reference for their planting and shipping. Specifically:
 - 1) Indirect adjustment for production and shipment, which is summarized as follows:
 - to prepare a food supply and demand program for all food which is the base of the agricultural

production plan,

- to prepare a supply and demand forecast for principal foods within the above-mentioned program, and
- to announce the information to the farmers for reference for cropping varieties and areas to be planted, and for timing of planting and harvesting.
- 2) Direct adjustment for production and shipment, which would be done under a future project for planned production and delivery of principal agricultural produce, can be summarized as follows:
 - to determine the specific agricultural produce which is to be supplied on a regular basis, and is determined by the supply and demand forecasts,
 - to guarantee a stable profit for the farmers, and
 - to require farmers to follow the adjustment schedule for production and shipment as directed by PAMAP
- (ii) In cases of excess production or marked drops and rises in the prices of produce, a future project for stabilizing shipments of agricultural produce to the commercial farms and large-scale farmers would be as follows:
 - incentive funds for the immediate shipping of produce, at the time of the marked rise in price, and
 - price sustaining funds for adjusting shipments at the time of a market drop in the price of produce and,
 - the preparation and publication of supply and demand

forecasts by PAMAP. Direct adjustment for production and shipment before and after cultivation is to be studied to identify suitable measures for Oman.

A study of basic data such as agricultural production, distribution, and consumption, is essential for the formulation of both of the above-mentioned projects. Moreover, data comparison is also essential. With respect to the collection of basic data conducted by MAF, PAMAP and ROP, an examination is recommended to guarantee efficient and effective collection and processing of the necessary data. PAMAP is in charge of the collection of data for distribution and consumption.

(c) Promotion of distribution efficiency and establishment of shipping organizations for farmers

The promotion of distribution efficiency refers to the efficient delivery of agricultural products produced on the farm to consumers, through such activities as storage, transportation and distribution, paying particular attention to time, place, quality and cost of agricultural produce.

In order to reduce the distribution cost, or to distribute with minimum storage, demand adjustments should first be conducted in the production and shipping stage. In the next stage, after shipment, an efficient delivery program should be planned between each distribution center and each market. In addition, the time required for distribution from producer to consumer, should be minimized, taking into account the nature of the agricultural produce, i.e. its storability, etc. Whichever technique is employed, storage generally decreases freshness, and raises distribution costs of agricultural produce. Based on this, the following is required of PAMAP:

- to make an effort to plan an efficient delivery program and to deliver the agricultural produce according to plan, and - to conduct appropriate management, training and implementation for using refrigerating stores, in order to efficiently distribute products with minimum storage.

The new stores and pre-cooling stores to be established to cater to the expansion of PAMAP's distribution, as well as to satisfy the needs of consumers with respect to quality and freshness, are to be planned and discussed in the facility development plan for main distribution channels.

(ii) Transportation and Establishment of Shipping Organizations for Farmers

Collection and shipment of agricultural produce can be classified into the following two stages:

1) 1st Stage: From farmer to PAMAP or wholesale traders

In this stage, a reduction in shipping costs and an increase in the amount being shipped by farmers, are targeted through strengthening the shipping organizations for farmers which assist the small-scale farmer shipments. The transportation industry is not well developed due to the relatively limited volume of goods distributed in the country. Accordingly, PAMAP or another public organization is required to collect the produce for the small farmers, or to assist them until farmer shipping groups are organized. The method for strengthening such shipping organizations for farmers is to be studied in relation to the above issues, and subsequently carried out.

2) 2nd Stage: From PAMAP or wholesale trader to retail stores or supermarkets through the wholesale market

In this stage, nation-wide transportation system development for the main distribution channels is targeted for. This transportation system must be studied so as to reduce transportation costs, provide a more efficient delivery system between the respective shipping sites for produce, and to provide more balanced and constant shipping volumes controlled by the previously discussed demand adjustment measures.

The use of refrigerator cars for transportation is effective because of the high atmospheric temperature in Oman; however, maintaining the temperature of the produce is complicated by loading and unloading. The operations to maintain low temperature at which the produce is kept also results in higher transportation costs.

It may be best to introduce a cold-chain system, in which agricultural produce is pre-cooled immediately after harvesting, and then transported by refrigerator car. This system will make it possible to deliver high quality agricultural produce to consumers. In addition, the study on the transportation system is necessary from the view point of consumer requirements in terms of quality.

(iii) Distribution techniques

Distribution techniques, such as grading and packing should be studied. Since agricultural development aims for an increase in production and quality in the future, a greater variety and larger volume of produce will require a new system for main distribution channels.

Grading quality, as well as standardizing the size of the produce is an essential step towards rationalization and simplification of distribution activities. As too-strict grading and selection of the produce, however, result in confusion in production and distribution, an appropriate standard should be established for the selection process, taking into account farmer production techniques and consumer requirements for quality.

In grading and selecting produce, particular emphasis must be placed on the following:

- purchasing the produce from farmers at the price determined according to fairly-graded quality, and
- supplying the produce to the consumers at a price set according to that graded quality.

Of course, the importance of grading and standards should be duly published and made available to the producers and the farmers. Shipment to PAMAP should be encouraged by government policy in order to expand PAMAP's distribution volume. Non-standard produce may be included in such shipments. In order to enhance farmer production incentives, as well as to improve the size of farmer shipments, selective purchases should be made of both standard and non-standard produce. Such non-standard produce should be used as raw material for processed agricultural products.

At the same time, packing is also essential if the products are to maintain their quality and demand at a reasonable price. Packing is classified depending on whether packing occurs at the farm-gate, the distribution stage, the wholesale market, or the retail stage. Low-priced, domestic packing material should be used.

Efficient distribution will be achieved from the aspects of cost and quality through the introduction of well-balanced techniques in grading, packing, transportation and storage. The training to improve these distribution techniques is also of vital importance.

(d) Facilities development

The physical distribution route between production and

consumption will change according to the future increase in production, and changing demographics. More efficient distribution is to be achieved by using the optimum physical distribution route, determined by the relationships between farm-gate and collection centers in the region, and between respective collection centers and the consumer. Re-organization for more efficient arrangement of the collection and shipping centers for the future main distribution channels is to be studied, particularly in terms of appropriate scale and facilities, according to the conditions in each region and the role of the center there.

4.4.2 Agricultural Produce Processing

(1) Agricultural Production Forecast and Agricultural Product Processing

According to the supply and demand forecast for agricultural produce for the next 10 years, only a few types of produce which are dealt with by the various proposed projects will realize 100% self-sufficiency. This is clearly indicated in Table 2.2.11, Volume 5.

Mainly because of the prohibitive climatic condition in Oman, even if the timing of the planting and harvesting of the proposed cropping pattern shown in Tables 4.1 to 4.7 in Volume 5 is shifted to some extent, the annual gross production for shipment is concentrated in a 3 to 4 month period. Due to the seasonal characteristics of agricultural produce, a drop in price and in the amount sold has been observed recently for several crops and has resulted in dampening the farmers' production incentives.

With respect to the production plan for the year 2000, the monthly excess production of agricultural produce at present is analyzed in Table 4.4.6. This analysis illustrates that excess production occurs for bananas and garlic for several months. However, it is felt that a drastic drop in price will not occur because of their present exporting and storability.

Crops, other than the ones analyzed above, which are believed to be over-produced are dates and limes. The processing of agricultural produce such as the pickling of dates, limes and vegetables, is done in Oman as a countermeasure against excess production, low quality, damage, and low price.

By the year 2000, provided that a suitable supply and demand relationship is achieved for produce, productivity and profitability of the produce will be greatly improved. This produce should be used first for fresh food rather than for processed food.

At present, MAF is studying several plans: the complex processing factory for dates, limes and tomatoes, the factories for dates, handicrafts, pickled vegetables and fruits, and dry dates, and for the coconut processing factory. The following points ought to be taken into consideration while carrying out the study:

- (a) Stable and economical supply of agricultural produce for the necessary raw material,
- (b) Maintenance of high operation efficiency of the factory by the introduction of a complex agricultural produce processing industry,
- (c) Training of technicians and workers in the agro-processing industry, which requires the introduction of new technology and facilities, and
- (d) The government's financial, institutional and human support during the initial operation period.

(2) Potential of New Agricultural Produce Processing

(a) There are a number of restaurants and hotels in the urban area. In these food service industries, the proportion of the cost of food material is estimated to be almost 40% of the entire sales. Therefore, procurement of appropriate food material is vital and

directly affects, not only the management, but also taste and service which are the primary considerations of the food service industry. In line with the further diversification of the kinds of meals available, a more stable supply of various kinds of food materials is required for the food service industry in the future. The present passive procurement, as supplied by wholesale traders or supermarkets will not meet future requirements. Accordingly, it is important to develop direct supply sources through specific sales routes.

In addition, a supply of raw material of the agricultural produce and preliminary processing of vegetables, etc. (such as shredding lettuce) may be required in order to save money in the food service industry. Accordingly, as part of formulating the integrated food material supply system, the development of a system for providing cut vegetables may be proposed as a subject for a feasibility study.

On the other hand, in spite of their taste and usefulness as raw food material, sub-standard crops are either not harvested at all or else cannot be sold even at low prices due to their being sub-standard. Such crops could be used for processing.

(b) The development policy of the Fourth Five-year Development Plan will include the promotion of a national industrial economy through the increase of employment opportunities created by highly productive industrialization, using domestic raw materials.

However, the policies and measures for agricultural production and agricultural structure improvement are not adequate for the expansion of the farm management scale or for enhancing the agricultural management methods of the small-scale farmers.

Support for the farmers, and the increasing of their income will be achieved through providing employment opportunities in the region. Such employment opportunities can be created by encouraging an industry which uses locally available resources, i.e. a rural industry which produces a specific agricultural product in the region, or goods produced by processing that product.

At the moment, however, it is recommended that a feasibility study be conducted, and that an experimental station be set up, or else measures should be taken to enrich regional resources through development of specific produce for each region.

4.5 Subsidy Institution

4.5.1 Development Target

(1) Price Policy

The major roles of the price policy are "price support" for optimization of price levels, and "price stabilization" to control fluctuations. More precisely speaking, price support serves to generate income and to improve income distribution, while price stabilization serves to adjust the supply-demand ratio. The problems and arguments which could result from the introduction of such a price policy are described below.

- 1 Problem of financial burden. There may be an argument for applying this financial source to other, more constructive policies.
 - 2 Opinion against the highly-subsidized prices of domestic agricultural produce. Increased price disparity between domestic and imported produce.
 - 3 Income disparities may be increased within rural society because the price policy is generally extended equally to every kind of producer.

In addition, the introduction of the price policy may adversely affect the production policy and structure policy. In connection with the production policy, more price support endangers the balanced supply-demand ratio and results in overproduction. Therefore, a price policy which maintains the ability to adjust the supply-demand ratio should place particular emphasis on its relationship with the production policy. The price formation and distribution policy should be extended intensively over specific, appropriate groups through converting the price support policies into subsidies, like social welfare.

In connection with the structure policy, an excessively highlighted price policy may hamper the improvement of the agricultural structure and, accordingly, production would remain low.

A price policy which only stresses the income policy (i.e. formation and distribution) needs to be studied comprehensively, with respect to other policies. However, which functions of the price policy are to be most important should be judged by the general economic situation, as well as by the supply-demand trends for agricultural produce and the agricultural production forecasts.

Appropriate income formation and distribution should be executed by policies other than the price policy at a time of price declination due to a failure in the supply-demand adjustment. These will be executed by the price policy only when prices decline due to good weather and a resultant good harvest, or when incomes decline due to a bad harvest,

The price policies are classified as follows, depending on the degree of intervention of the market mechanism:

1 Market control type:

Administrative price institution by which the government regulates the entire distribution volume in the market and determines the buying and selling prices.

2 Market price oriented type:

Under the premise of using the free market for price formation:

There are two kinds of programs: the price stabilization program in which the market price is stabilized within a specific price range by means of a buying-selling operation conducted by the government-related organization; and the minimum price guarantee program which guarantees a specific

minimum cost level.

These programs only aim at agricultural produce which is standardized, storable and easily purchased in the international market. It is difficult for this program to select the appropriate time for buying and selling, although that tends to encourage price fluctuations rather than stabilization.

3 Market price compensation type:

Under the premise of using the free market for price formation:

Application of subsidies so that the price differential between the standard price and the producer's selling price is supplemented; or the program for stabilizing funds so that a part of the price differential is supplemented by the funds accumulated by the producers, etc.

These measures focus on less-storable agricultural produce because buying is not conducted and therefore, storage is not required. The latter program aims at the realization of a supply-demand equilibrium price, i.e. the price which places marked emphasis on the market mechanism.

This program is not for price support which aims primarily to supplement income. This is the point at which it is different from the other price policies.

(2) Trade Policy

In general, the volumes of import and export, and the domestic production are determined partly by the domestic and international market mechanisms and are influenced by government intervention with agricultural produce trade policies, i.e. policy instruments such as trade barriers and customs duties which directly regulate the import and export of agricultural produce.

The interest caused by such agricultural protective policies sometimes causes serbious antagonism within the nation, e.g. while the agricultural producers are benefiting from the policy, consumers are at a disadvantage because they must purchase agricultural produce at a domestic support price which is higher than the price of the imported produce. Even in this case, however, the consumer will benefit, from a long-term point of view, from several results such as national food security, preservation of national land and living circumstances, activation of the rural and regional economies, etc.

The measures employed under the trade policies are as follows:

1 Customs duties:

customs duties, import surcharges and variable import surcharges.

2 Trade barriers:

import volume controls, import quotas, import deposits and export bounties.

3 Indirect trade barriers:

epidemic controls, safety controls and hygiene controls.

At the same time, among other measures in the production policies, the domestic producer protective measure (the subsidization of agricultural input materials to reduce production costs) is not disadvantageous to the consumers or to equality in social welfare, though it is as advantageous to the producer as the above protective trade measures.

In spite of such advantages in the subsidy measures, the reason why the protective trade measures are generally employed is primarily that they are less of a financial burden compared to the subsidy

measures.

The comparison of the customs duties and subsidy-to-production cost indicates that the subsidies are more advantageous than the customs duties from the point of view of protecting local production, while the customs duties are better than the subsidies for simply reducing import volume.

The basic course of the trade policy is thus determined on the basis of the integrated agricultural policy, while imports and exports are regulated by the fiscal and financial policies outlined below.

(3) Financial and Subsidy Policy

The methods by which the financial and subsidy policies carry out measures for the achievement of the agricultural development policy are as follows:

- 1 Subsidies as a direct measure
- 2 Interest subsidies extended by institutional credit
- 3 Preferential treatment in taxation

Since the financial and subsidy methods depend on national revenue and are accordingly financially limited, they must be distributed efficiently and fairly. As is described in (b) above, for the producer, or farmer, the effect of a protective agricultural measure such as a subsidy is the same as that of a protective trade measure. The farmer does not put consumers at a disadvantage and he maintains social welfare standards, though it is more of a financial burden. On the other hand, protective trade measures are less of a financial burden, but they reduce the economic welfare of both consumers and society as a whole. Thus, both pure economic efficiency, and political and administrative efficiency should be taken into account in the selection of these measures.

As one policy method, a subsidy aims, on the basis of the government's administrative requirements, to do the following:

- 1 Provision of services for public capital investment,
- 2 Supplement of the market mechanism, and
- 3 Redistribution of income and mitigation of regional disparities.

In terms of the focuses of the subsidies, the agriculturerelated subsidy can be categorized as follows:

1 Social overhead capital:

agricultural infrastructure development, agricultural structure improvement measures and distribution facility development.

2 Individual industry measures:

price stabilization measures, promotion of agriculture and livestock.

3 Education and cultural concerns:

agricultural improvement and extension services projects, and agricultural technology development.

4 Social welfare concerns:

livestock epidemic prevention.

5 Others:

agricultural credits, food distribution measures and

statistical information system improvement.

An institutional credit is one of the following governmental policy credits for the execution of agricultural policies:

- direct loan from the public finance department, and
- indirect, preferential measures by means of the financial instruments for lending sequential funds and commercial funds through:
 - debt compensation,
 - quantitative supplement of funds, and
 - qualitative supplement of funds, i.e. interest rate or loan
 - period, etc.

In general, regular credit is not applicable to agriculture due to agriculture's low profitability, which results in characteristics of the agricultural production structure. Accordingly, the necessary money is extended, as a subsidy, from reserves of the national revenue, to the parts of the project which are verified as public goods, etc. The remaining money for the project or the money approved as necessary for the project in line with the policy objectives, is procured mostly from the subsidy measures using institutional credits such as long-term, low-interest loans. The last portion is borne by the beneficiaries.

The Institutional credit policy is characterized by the following:

- Since it is a policy induced by means of indirect policy instruments, achievements of the policy, or its effect on the agricultural income generation is accomplished with a certain time lag and it is therefore weaker in effect than subsidy measures.
- 2 Since the policy objective can be accomplished by financial instruments, avoiding the national financial source, the

initial financial burden is lighter, while subsidiary objectives can be expanded.

The institutional credit, which is long-term and low-interest, requires a government subsidy to cover the inevitable backlog which arises due to:

- the loan interest rate being lower than the commercial interest rate, and
- -the loan period being so long.

The practical application of the financial and subsidy policies should be carried out while taking the following into consideration for each project within the agricultural sector:

- public and private roles in the project,
- social aspects of the financial burden,
- investment cost efficiency of the project,
- composition ratios of subsidy and institutional credit, and
- achievement rate and speed with which the objective can be attained.

4.5.2 Development Strategy

(1) Price Policy

The price support policy is not in place at present in Oman. PAMAP determines the buying and selling prices by observing trends in market prices. The selling price is, generally, determined by adding the expenses for storage, transportation and distribution as well as profit to the buying price. However, since PAMAP's selling price does not include any profit, due to its role as a public

organization, there is a negative margin between PAMAP's buying and selling prices. This negative margin is subsidized by the government. The reasons why this is required are the increase of transportation cost corresponding to an expansion of the distribution system and the rise of storage cost, which makes it necessary to adjust shipments, and inefficient distribution functions.

Although PAMAP's distribution volume is only a portion of the entire volume of the country, its buying price still follows the trend of the market price, because of the above situation. The total amount of agricultural produce purchased by PAMAP in 1988 at a price lower than the production cost shown by DAS (MAF), accounts for 10% of the volume and 3% of the expenses of PAMAP's entire distribution The comparison of production cost and buying price indicates some produce with extremely high, or low prices (refer to Table 5.8.4, Volume 2). Annex Figures 5.8.2 to 5.8.17 show less fluctuations in monthly prices, in spite of large fluctuations in domestic volume of several crops in 1988 such as bananas, coconuts, cucumbers, garlic, onions, papayas, potatoes and tomatoes. tables also show that modern management is financially feasible for most crops provided that various proposed agricultural production measures are taken. It is, therefore, regarded that the adoption of the price support policy is not an absolute necessity for income generation for, and income distribution to the farmers, except in the case of some crops. However, in order to increase production to meet the demand for each crop, the introduction of the price policy should be considered. It is necessary to conduct further analysis of the trends of monthly production volume and the price of each local crop. The price policy is also necessary for the promotion of wheat production.

(2) Trade Policy

The comparative analysis of Annex Figures 5.8.2 to 5.8.17 of Volume 2, which show the monthly price fluctuations for imported and local produce in 1988, reveals that the price of the imported produce is higher than that of local produce particularly for bananas,

coconuts, cucumbers, garlic, onions, papayas, potatoes and tomatoes. The result of the field interview survey conducted in November 1988 also indicated the same trend. The price of imported produce is about 1.5 times that of the local produce. Since a considerable volume of agricultural produce is imported from the UAE without customs duties, it is recommended that the analysis continue.

PAMAP has issued import licenses for agricultural produce since 1987. When a trader intends to import agricultural produce, he may do so only after obtaining a permit for the variety and quantity of the produce to be imported. PAMAP issues the license according to the inventory of the agricultural produce which corresponds to the produce applied for by the trader. This is not a strict protective trade measure at the border, so much as the regulation of imported volume, based on supply-demand balance determined by the analysis of trends of domestic production and consumption of the agricultural produce. PAMAP does not have data regarding the production, distribution and consumption covering the country which are required for effective execution of protective trade measures at the border.

Provided that the agricultural production increases and the distribution volume increases accordingly, the adjustment of the supply-demand ratio for agricultural produce, including imported products, is indispensable for the promotion of well-balanced agricultural development.

Therefore, practical measures for a trade policy should be studied for the purpose of increasing domestic agricultural production, as well as to generate income for farmers within the predicted socio-economic conditions in Oman. The present import license system and tariff policies should be maintained for the time being. For this purpose, it is essential to collect basic data connected with production, distribution and consumption.

(3) Financial and Subsidization Policy

Two types of financial policies are carried out in Oman. They

are: governmental subsidy, and financing by OBAF. The former type consists of two schemes: the subsidy for improving infrastructure, i.e. the construction of recharge dams, repair work on aflaj and improvement of irrigation systems; and one for agricultural input such as chemicals, fertilizers and machines. Judging from the contents of the financial policy, it is obvious that the government of Oman gives a high priority to the subsidy for agricultural inputs.

The subsidy for agricultural outputs will give farmers incentives and increase agricultural production; however, it will cause the income distribution in rural society to be unequal, as discussed in 4.2.5 (1) (a). In order to subsidize agricultural outputs smoothly and strictly, a market mechanism should be well-functioning in deciding the gate-prices of agricultural products, and a price checking system should be established. Furthermore, detailed data on production costs of all products and all farming patterns should be collected.

At present, this kind of system has not been established, nor has such information been acquired in Oman. Accordingly, establishment of a fair market system and the institutions for basic data collection concerning agricultural production, production costs, gate-prices, wholesale prices and consumer prices should be encouraged in order to equip the institutional organizations and economy for the introduction of output subsidies.

Consistent with the Third Five-year Development Plan, the 10-year Agricultural Development Plan puts high priority on the subsidies for improving infrastructure. The subsidy for agricultural inputs for small-scale farmers will continue to reduce production costs as well. This could also be used as an incentive for farmers in order to improve production of specific crops which the government intends to promote corresponding to the changes in demand for agricultural produce. At the same time, it is necessary to make a continuous effort to collect relevant, basic data, considering the imminent introduction of an appropriate output subsidization program.

As for the financing by the OBAF, programs which finance the following new projects should be introduced, in addition to the existing ones.

The following projects are suggested in the Master Plan;

1. Project for Introducing Modern Irrigation Systems

Increase harvest area by introducing drip irrigation, conservation methods, and more efficient use of irrigation water.

2. Project for Promoting Intensive Livestock Farming

Subsidize small-scale compound livestock farmers on their initial investments on animal sheds and grass seeds.

3. Project for Improving Management of Small-Scale Farmers

Subsidize small-scale farmers on the cost of cleaning up date palms, and constructing facilities for vegetable production like water tanks and irrigation facilities.

Irrigation facilities will be modernized and the management methods of small-scale farmers will be improved and stabilized by these projects.

CHAPTER 5

AGRICULTURAL DEVELOPMENT PLAN

CHAPTER 5 AGRICULTURAL DEVELOPMENT PLAN

5.1 Development Investment in Agriculture

(1) Current Government Investment in the Agricultural Sector

Investment by the government in agriculture in 1988 was 1.8% of the total government investment. Although roughly the same as that targeted at the manufacturing sector (1.7%), it is low in comparison to that invested in petroleum (21.0%) and natural gas (6.2%) as shown in Table 5.1.1.

In terms of infrastructure as well, less emphasis was given to the agricultural sector. Outlay for irrigation and water resources facilities was only 1.3 % of the total government investment, as compared with 6.0 % for municipal services, 5.7% for roads and 4.7 % for various educational infrastructures.

This low investment proportion in the agricultural sector can be attributed to a greater priority by the government, since 1970, for economic modernization through development of transportation, telecommunications, educational and other facilities related to daily life. This resulted in relatively lesser emphasis on investment in primary production sectors, particularly the less efficient agricultural sector.

However, a growing realization of the importance of the agricultural sector in the late 1970's prompted the government to form in 1979 an independent Ministry of Agriculture and Fisheries from the former Ministry of Fisheries, Petroleum and Minerals.

Nevertheless, priority of outlay for the agricultural sector has remained low. In the Third Five-year Development Plan beginning in 1986, the amount of government budget allocated to the sector was R.O. 76.4 million, or only 3.8% of the total. Given the fact that almost half of the labor force of Omani nationality is engaged in agriculture, and that more than half of the total population resides in rural areas, it will be

Table 5.1.1 Sectoral Distribution of Government Investment (1978-1985)

	(%)										
Sectors	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Commodity Production Sectors				•							
Crude 0:1	18.1	29.5	25.4	18.7	22.2	16.4	14.8	13.7	25.8	22.6	21.8
Natural Gas	2.4	÷.	1.6	1.9	9.2	1.2	1,5	2.2	2.7	8	5.2
Other Minerals	B.	63	3.5	5.2	5.5	2.5	8.6	9.3	8.3	9	60
Agriculture	9:1		1.4	1.3	1.2	Б. 60	1.3	1.3	1.1	ю. С	1.3
Fisher: es	8.4	9.6	9.0	8.3	8	153	8	G)	8	8	60
Industry.	හ හ	9.1	2.5	8.8	ro co	8	6	8.8	2.5	1.5	1.7
Subtotel	22.9	33.1	34.4	36.5	34.7	22.7	18.1	18.9	31.1	28.6	38.9
Service Production Sectors								٠			
GC Snot	60.00	69,	6.	-	5	8.4	9.6	3.6	.6	4.1	6
Commerce & Tourism	60	6.0	9.7	8:	8	4	5.5	9.0	8	. 89	60
Electricity	6.8	5.	7.9	5.8	4	6.5	ده ده	20	5,6	4.8	9
Later	2.5	3.4	1.8	3.4	en en	9 2	2.4	4.9	80	7	
Post & Telecommunication	2.8	9	8	8.5	တ မ	2.6	8	4.4	4.5	9	6.1
Financial Institutions	8.8	8.8	8	9.8	8	8.8	8 8	9.8	8. 8.	8.8	8
Subtotal	15.4	14.3	18.3	11.9	17.6	21.4	23.8	22.8	17.4	28.8	19.8
Infrastructura											
Irrigetion 8 Water Resources	69.44	8.8	9	.3	1.3	1.2	1.8	5	2.5	υ 53	
Roads	r- .or	22.9	15.0	17.1	0	00	- 2	11.5	6	7.7	, ₍₁
Ports	4.4	3.8	ю. 6	8.8	1.3	60	8	හ හ	9.1	60	60
Rinborts	1.4	e	1.7	9.8	8	ю 89	63 63	1.2	6.7	හ හ	69
Municipal Services	2	ო ო	5.6	0	3.5	8 2	м М	ហ	3.6	8.8	8
Education	3.5	6.	8	2.4	7.4	5.5	8	6.8	7.2	10	4.7
Uocational Iraining	9.4	1.7	t.	6.7	2.5	1.4	1.1	69	8	69 63	83
	2.8	1.5		1.5		2 2	3.4	3.7	8.8	8.2	3.6
Information, Culture, & Religion	2.1	1.8	6° 1	8.8	2.8	2.5	3.4	63	1.4	2.2	2.3
Social Service Centers	68	9.6	8.6	S. B	9.4	9.6		8.3	8,2	8.2	8.2
Government Administration	36.8	12.8	22.7	28.8	19.9	38.5	31.8	25.5	21.7	22.5	25.1
Subtotal	61.7	52.5	85.3	51.6	17 7	SS 9	58 9	59.1	51.4	51.4	48.1
Grand Total	188.8	188.8	188.8	188.8	188.8	138.8	188.8	188.8	188.8	188.8	188.8
Percentage of Rein Sectors to Grand Total of Gov. Inv.				:							
Agriculturo	2.3	8.0	2.6	ю 89	8	2.3	3.4	4	3	4	e
Mining	21.8	30.7	30.2	26.8	27.9	19.6	16.8	16.2	27.9	25.5	27.7
Tenufacturing.	8.8	9.1	2.2	8.8	5.3	8	8.5	8	1.2	1.5	1.1
Total	23.3	33.7	35.0	37.8	36.0	23.9	18.9	21.1	32.3	29.1	32.3

necessary in the future to accord increased investment priority to this important sector.

The government, recognizing this necessity, designated both 1988 and the following year 1989 as "Agriculture Years", and sponsored a variety of activities to foster increased interest in agriculture at both the individual and government levels.

It is anticipated that under the 10-year Master Plan, an accelerated effort will be directed at the agricultural sector as a step toward the promotion of rural development, and improvement of farm income, thereby promoting equitable income distribution, easing off the pressures on urbanization by encouraging settlement in rural areas, etc.

(2) Investment Efficiency in the Agricultural Sector

In order to improve overall productivity of the agricultural sector, it is essential to upgrade the efficient application of three elements: land, capital, and labor.

The efficient use of land and capital can be addressed through well-planned, wise investment. Improvement of labor productivity can be achieved through continued programs of agricultural extension and training, and a stable supply of farm inputs and machinery. Here, land and capital can be regarded as the "hard" aspect of agricultural development, while the remaining labor aspect can be viewed as the "soft" aspect (in much the same way as the "hard" aspect for an automobile would be the machine itself, its components and fuel, while the "soft" aspect would be the capacity to drive the vehicle effectively).

An indicator of capital efficiency is the cost output ratio (COR) expressed as K/Y (K: capital, Y: output). However, the incremental cost output ratio (ICOR) is more conventionally applied due to the difficulty in evaluating K. The ICOR is expressed as dK/dY = I/dY (I: investment). For a typical country, the ICOR for the national economy is generally 3 - 5, although quite a degree of variation may occur depending on the level of development as well as the conditions existing at the initial stage of

development. Some example figures from the 1970's are 5.8 for India and 6.8 for Sri Lanka in South Asia, and 3.0 for Korea in East Asia. Japan exhibited a high value of 5.4 for the 10-year period from 1965-1975. It is generally assumed that the ICOR is relatively high at the initial stage of a country's development, steadily dropping as industrialization progresses. The reason for this is that emphasis in the early stages of development is directed at infrastructure at the expense of production sectors. Accordingly, investment has little direct effect on improving production. Again in the case of Japan, COR (exhibiting the same long-term trend as ICOR) for investment efficiency in social infrastructure was 6 - 8 during the 1920's and 30's. For the likewise poorly productive agricultural sector, COR at the initial stage of modern economic development in Japan was more than 5.

The JICA team estimates the ICOR 3-year moving average in Oman for the period 1979-1985 to be 5.0-2.6 for the economy as a whole, and specifically 15.8-1.5 for the mining sector, 2.7-0.9 for the manufacturing sector, and 7.8-2.5 for the agricultural sector. Although unavailability of complete data places a limit on the reliability of calculations, ICORs for all sectors appear to exhibit high values at the start of the 1980's, with subsequent drops thereafter. This indicates an increase in investment efficiency with the passage of time.

However, in the case of the agricultural sector, it is possible that ICOR in the estimation period is the result of less investment in the sector and the biased investment in relatively profitable areas of the sector. Consequently, the comparatively low ICOR for the agricultural sector is regarded as a reference only.

Also, investment in the physical infrastructure of the agricultural sector commenced only recently, and as future investment in the sector increases and is directed at less efficient sub-sectors as well, the depressed ICOR value can be expected to rise.

(3) Investment Efficiency in the 5-Year Agricultural Development Plan

In formulating the 5-year Agricultural Development Plan, it will be

necessary to propose the scale of development investment to be allocated by the government. To achieve this, the ICOR for the agricultural sector is assumed and the GDP increment is forecasted. On this basis, the necessary total investment is determined.

In the case of a conventional development model based on a short time period such as 5 years, the ICOR is assumed to be sufficiently constant so that a single value can be applied. Although an ICOR value of 5 would conventionally be applied for the 5-year period, the following conditions must be considered in the case of the subject sector:

- (a) With the exception of only very limited areas, agriculture in Oman is at a very underdeveloped level.
- (b) Development of physical infrastructures like recharge dams which contribute indirectly to agricultural production, as well as modern irrigation facilities directly affecting production, is lacking. The former needs a great amount of investment in spite of its delayed impact to production increase, namely GDP increase.
- (d) Overall, agricultural development will depend greatly on improved farming skills and active participation on the part of farmers themselves. Such upgrading of skills and changing of attitudes cannot be achieved overnight, and consequently short-term improvement of farm-labor productivity cannot be expected. Intensive efforts still have to be directed at the training of extension workers and increasing the range of extension activities, as well as establishing a stable supply of farm input necessary for improved agriculture.

On the basis of the above, a value of 8 which represents the ICOR commonly seen in the case of physical infrastructures in the initial stage of development is to be adopted as the ICOR for the agricultural sector during the 5-year period.

GDP in the agricultural sector for 1988-2000 is estimated in Table 5.1.2. GDP figures are calculated on the basis of yearly cultivated areas

Table 5.1.2 GDP Growth of Agriculture Sector

	! ! !	888	,	; ; ; ;									
Crop	1988	1989	1998	1991	1992	1993	1994	1995	1996	1997	8661	1989	2008
Date Palm	8,162.6	8,537.2	8,928.9	38	57	215	684.	.4	687.	223.	784.	3	13.984.
7.000	ď	**	65	804.	989.	216	.496.		986	.873.	643	-	2,198.
Banana	3,201.2	ထ	ď	629.	784.	978	115.	<u>.</u>	458.	,633.	814.	9	5,197.
Coconut	771.8	87	995	1,130.4	1,283.7	1,457.8	٠.;	1,888.0	1,945.8	2,813,9	2.884.3	u,	A.
Papaca		φ	60	483.	467.	452.	43	er.	444	466.	489.		538.
0178178	7.	හ	781.	888	361	9	- 60 60	324.	785.	27.1	784	8.325.	83
Rhodes Grass	, 283	11,735.5	N	12,693.9	13,202.1	13,730.6	14,280.3	14,852.8	15,646.3	16,483.1	17,354.7	18.293.4	19.271.
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0.000	23 29		53		٠		9		9				
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Сарраде	1.824.4	1,058.5	1 118 3	1.155.9		 	70	٠. ٠			'n	599	1,666.
10 10 12	165.4	. 98		167.3	88	168	169.		178	187	. 9	286	
	<i>\$</i>						•						
Onion	279.8			369.7	326.		343.9	356	378.9	483.2	429	45	485.
Cucumber	1,955.5	2.884.7	2,855,1		მმ	2,214.1	69	ú		κο.	507.	88	2.813.
Egoplant	431.6			1.4	4	u,	27	54	569	594		647	67
Radish	1,114.2	1,171.4	-	_	61.	1,431.3	,504.	'n		ю·	851	50	2,855.
Squesh	482.5		434		88.	4	5	524	-	.572	88	25	653.
Ceuliflower	148.0	139,	OD.	139.	33		138.	38	144.	158	157	163.	7
Lime. Lemon	4,861.6	3,982.	3.984.8		54.	8	.88	538.	629.	721.	ø	314.	4.013.
Mango	1.713.7	1.7	83	,897.	963.	2.031.6	. 181.	174.	.245.	.317.	.392.	478.	S.
Chilli Pepper	1.691.8	1,778.	1,852.4		828.	-	.228,	ë	444.	. 572,	786	846.	თ
Tabacco	4,986,5	5,896,6	5,209.1	5,324.1	5,441.7	5,561.8	5,684.6	5,818,1	5,938,4	6,869.5	6.283.5	6,340.4	6.488
χ. 	4.689.3	4,653.5	4.698.1	43.	788.	834	880		96	285.	349	5.498.7	
Mutton	5.132.4		m		7,502.5	8 249 5	9,678,9	9.974.8	11.375.6	12,974.1	14, 797, 3	16.876.7	19,248.
Beef	3,170.8	3.44	3,751.3	.888.	438.	827	258.		751	791	831.	5.871	S.
Chicken	548.3	82	1.237.5	59.	793	196.	364			446.	583	13,833.6	
F89	~	7.3	ന	.198.	529.	953.	94.	3.186.0	3,4	728.	333	4.363.2	
Other Vegetables	117.4	123.5	138.8	36.	8	 	6	67.	76	20	195		216
	٠,	(C)	292.9	25	61	80	45	70	47	5	678		828
Citru	2,181.8	ഹ	2.214.3		88	95	တ	24	595	667	2.74	818	•
Fruit	223.	276	341.	4	521.4	644.2		983.5	1,148.6	1.322.8	1.534	1.779.2	2,863
					,	-							٠.;
Total Occurry Doctor	77,820.1	81,594.0	85,789.7	90,513,5	95,914.1	182,281.2	109,674.1	118,763.8	125,434.7	132,626.6	148,391.5	148,787.7	157.888
מייט אמנס		4.	;		0	ó	•	•)

for each crop, and present and planned production costs and income per cropped areas. Estimated figures show GDP growth of 6.2%/year during 1988-1995.

The investment amount obtained by multiplying the GDP increment by the ICOR is the total for both public and private investment. On the basis of past trends, it is assumed that public investment will account for 70% of the total for the duration of the 5-year period.

Necessary public investment during the two five-year periods based on ICOR and GDP increments for 1990-1995 and 1995-2000 are calculated in Table 5.1.3. For comparative purposes, investment amounts applying an ICOR of 4, 6 and 10 were also computed.

It can be seen that R.O. 185 million is the appropriate value for necessary government investment to achieve implementation of the 5-year Agricultural Development Plan where ICOR is 8. (A note of caution regarding the above: as calculations are, out of necessity, based on certain hypothetical conditions, the fluctuation of any of these will subsequently raise or lower to some degree the suspect figures.)

In addition to cost effectiveness, the following criteria must also be considered in establishing the amount of agricultural investment:

- (a) Agricultural investment is by nature investment in the rural society, and serves to rectify disparities in income distribution and social infrastructure development between urban and rural areas.
- (b) The linkage effect or intangible benefit, beyond the agricultural sector, can be anticipated to be that almost half of the labor force of the Omani nationality will be engaged in agriculture.
- (c) Investment in large-scale agricultural production infrastructures such as recharge dams, etc. due to their multipurpose nature can be anticipated to have a strong impact on stimulating economic activity outside the agricultural sector as well.

Table 5.1.3 Required Government Investment in Agriculture Sector
Calculated through ICOR

ltem		1988	1998	1998- 1995	1995-	Total Investment
GDP (R.O	. 1.000)	77,820.1	85,789.7	118.763.8		
GDP Incre					39,116.6	
Case 1	Assumed ICOR			4.8	3.2	
	Necessary Investment			131,896.6	125,173.2	
· · · · · · · · · · · · · · · · · · ·	Gov. Contribution to Total Investment(%)		T	79.8	65.9	
	Gov. Investment	ar San		92,327.6	81,362.6	173,690.2
	Private Investment			39,569.8	43,810.6	83,379.6
Caso 2	Assumed ICOR			6.8	4.8	
	Necessary Investment		l	197.844.9	187,759.8	
	Gov. Contribution to Total Investment			70.0	65.0	
	Gov. Investment			138,491.4	122,843.8	260,535.3
	Private investment			59,353.5	65,715.9	125,869.4
			18 Test 1 2 4	144		
Case 3	Assumed LCOR				6.4	
	Necessary Investment			263,793.2	258,346.3	
	Gov. Contribution to Total Investment			79.8		
	Gov. Investment				162,725.1	
	Private Investment			79,138.0	87.621.2	166,759.2
Case 4	Assumed ICOR			18.0		
	Necessary Investment			329,741.5		
	Gov. Contribution to Total Investment		<u> </u>	78.6		
	Gov. Investment		<u> </u>		203,486.4	
	Private Investment		L	98,922.5	189,526.5	208,449.0

In addition to determining the ICOR as per above, it will also be necessary to establish the criterion for calculating the appropriate share that the agricultural sector should receive from total national investment. From the viewpoint of optimum allocation of resources, it is recommended that at least 10% of total government investment be directed at the agricultural sector (in 1988, the outlay for agriculture by the government, including production and infrastructure, was only 3.0% of the total investment). Although investment in the agricultural sector is less cost effective due to its relatively low productivity, from the long-term viewpoint it is warranted in order to diversify the pillars supporting the Omani economy which is currently overly dependent on its petroleum industry, as well as to improve the welfare of the farmers who make up almost half of the labor force of Omani nationality.

In this regard, the JICA team herein recommends that the minimum investment be R.O. 185 million for the coming 5-year Agricultural Development Plan.

At a national policy making level, a strong awareness of the importance of agriculture has emerged, and increased investment in the sector can be expected.

5.2 Budget for 5-Year Agricultural Development Plan

5.2.1 Definition of Components included in Budget

The 5-year Agricultural Development Plan described in the following chapters is a detailed explanation of the projects tabulated in the first 5-year period of the 10-year Master Plan, alternative 2, which is recommended by the JICA team in volume 3, section 5.4.

This budget total includes investment directly affecting the agricultural GDP referred to hereinafter as "agricultural investment", as well as indirect investment in such related sectors as service (PAMAP projects) and industry (agricultural produce processing projects). However, additional recurrent budgets to be incurred in relation to the projects have been tabulated separately. Also, cases where government investment is joined by private sector investment or financing by OBAF are grouped by funding source.

A sectoral description of project components is contained in section 5.3.

5.2.2 Required Budget for Agricultural Development

5.2.2.1 Overall Budget

The required budget for agricultural development over the first 5 years under the 10-year Master Plan is R.O. 278 million (Table 5.2.1). Of this, outlay from the budget of MAF is R.O. 261 million, and that from PAMAP is R.O. 17 million. Agricultural investment is R.O. 240 million.

Yearly budget requirements for the first 5-ear period are set out in Table 5.2.2.

5.2.2.2 Sectoral Budget

(1) Sectoral Allocation and Yearly Allocation

Tables 5.2.3 - 5.2.10 indicate sectoral and yearly allocation for the 5-year period.

(a) Irrigation and Dam Sector

The foregoing is characterized by a relatively heavy outlay for the irrigation and dam sector, to include construction of modern irrigation facilities and recharge dams, due to the general backward state of agricultural production infrastructure. This outlay is 49% of the total.

From the standpoint of conservation of precious water resources, the general public impact of irrigation facilities and recharge dam construction ranks in proportion to other public welfare infrastructures such as schools, hospitals, roads, etc. As water-use affects the country as a whole and not just the agricultural sector, they have been accorded high priority.

Target area for Subsidy for New Irrigation System Project aimed at effective use of limited water resources is 30,000 ha under the 10-year Master Plan, of which 13,000 ha will be implemented over the first 5 years. Target area under the pilot project for centrally-controlled irrigation for the first 5-year period is 47 % of that under the 10-year Master Plan. 25 of 39 promising recharge dam projects tabulated for the 10-year period will be implemented in the first 5 years. Project load for repair and maintenance of the traditional irrigation systems, aflaj and wells, is half that under the Master Plan.

(b) Agriculture Sector

The Master Plan places emphasis on the vertical development of agricultural productivity. In order to achieve this, special weight

in terms of budget outlay is given to strengthening and expanding extension and research activities at the core of transfer of new technology to farmers.

The Rumais Agricultural Research Center was established in 1971. Unfortunately, lack of adequate facilities has prevented full realization of its research potential. This in turn has constrained extension activities. There are a number of urgent research issues which require attention and which are directly related to increases in agricultural production. These include indentification of cropwater requirements, development of appropriate fertilizing and pest-control methods, dispersion of the cropping season, selection of new varieties, etc. Demand at the farmer level for a resolution of these issues remains high. Thus facilities, equipment and staff at the Rumais Agricultural Research Center will be strengthened to effectively carry out the above research.

More effective research will in turn result in more effective extension activities. Furthermore, the present system is involved directly in some extension activities such as soil survey. Accordingly, R.O. 10 million is targeted for research facilities and equipment.

Extension and general farm-related activities are one of the highest priority sectors under the agricultural development plan. Establishment of a basic framework for the conduct of intensive extension activities is thus a major target.

Establishment of extension facilities is concentrated in the first 5-year period to provide the essential framework for future activities.

A national aerial pest-control project is to be carried out with 100 % subsidy from the government during the first 5-year period. During the second 5-year period, however, farmers would be expected to bear the cost for the pest-control agro-chemicals themselves.

Agricultural technology information units at each of the extension centers in 30 key towns will be implemented over the 5 years.

The Development Support Communication Center will be constructed in an early stage of the 5-year Agricultural Development Plan as well.

Total budget for extension, research and general farm related activities for the first 5-year period is 13 % of the total.

(c) Livestock Sector

Livestock has much potential for development. Small farm in Oman are generally engaged in a combination of both crop cultivation and animal husbandry. In order to promote permanent settlement in rural areas and stem influx into urban centers, it is important to upgrade the productivity of this traditional form of farm management.

Towards this objective, a subsidy for poultry farmers is to be implemented during the first 5-year period. However, to encourage independence of farmer effort no subsidies would be provided farmers during the second 5-year period.

The Intensive Livestock Production under the Small Farm Development Support Project would target 5 % of all holders for subsidy.

Given the urgency of measures to combat serious livestock infectious diseases such as FMD, rinderpest, PPR and CCPP, the Animal Health and Disease Control Project is to be implemented during the first 5 years.

The Livestock Input Company Project, to supply concentrated feed and breeder birds important for increasing productivity of animal husbandry, would be implemented as early as possible to encourage participation from the private sector. Livestock-related research is to be implemented throughout the 5-year period. Livestock related budget is 17 % of the total (Table 5.2.7).

(d) Distribution Sector

In the distribution sector, wholesale markets and collecting and shipping stations are to be implemented in a phased manner over the 5-year period (Table 5.2.8). Projects related to distribution of crop and livestock products total R.O. 15 million.

(e) Agricultural Produce Processing Sector

The agricultural produce processing projects aim at nurturing private sector participation through government subsidies. Construction of a coconut plant in the Southern Region and other projects under the program will be commenced as the results of the feasibility studies in this regard become available. Total cost for the projects is R.O. 22 million, of which outlay by MAF would be R.O. 10 million (Table 5.2.27).

(f) Inter-sectoral Projects

Inter-sectoral projects include the Integrated Agricultural Development Project in Nejd, the Project for Improvement and Maintenance of MAF Facilities and on-going projects. The Nejd project is considered particularly promising, and will entail an integrated implementation of research, extension and irrigation facilities with a view to increased agricultural investment efficiency. Budget for these inter-sectoral projects is R.O. 32 million (Table 5.2.10).

(2) Regional Budget Allocation

Design for regional allocation on a sectoral and project basis is

indicated in Tables 5.2.11 - 5.2.19. Regional allocation was determined on the basis of the following criteria:

- (a) Projects with a fixed project area have been included in the allocation for the region to which that area belongs.
- (b) For projects for which total project load is known but specific regional outlay will not be clear until the implementation stage, proportional outlay per region has been estimated in advance on the basis of the most probable criteria, such as proportion of cropped area to occur in a particular region, etc.
- (c) In the case of strictly national projects and programs, regional outlay was estimated on the basis of arbitrary criteria such as number of head of livestock affected in a particular region, etc.

Details of regional budget outlay are contained in section 5.3.

(3) Source Allocation of Funding

The Master Plan includes projects funding jointly by the government, and either OBAF or the private sector. Tables 5.2.20 - 5.2.28 indicate these projects according to source of funding. Total necessary funding from all sources under the Master Plan is R.O. 315 million (Table 5.2.20). Capital participation from the private sector is anticipated particularly under the agricultural produce processing projects (Table 5.2.27) and the livestock marketing improvement projects (Table 5.2.25). Expected private sector investment in the projects included under the Master Plan for the first 5-year period totals R.O. 21 million.

Funding participation by OBAF under the Master Plan is anticipated at R.O. 17 million. This funding will principally be lent to supplement the government subsidy program. For sectors, the bulk of financing from the bank is expected in relation to projects to establish modern irrigation facilities.

(4) Time Schedule of Projects

The time schedule of the projects is shown in Tables 5.2.29 - 5.2.37.

Table 5.2.1 Budget Total - 5-Year Plan

			TOTAL
SECTOR	PROJECT NUMBER	NAME OF PROJECT/PROGRAM	BUDGET (1000RO)
		T	135,518
Irrigation and Dam	N H - 1	Improvement of Irrigation System and Centrally-	19,800
	NW-2	Controlled Water-Distribution System Subsidy for New Irrigation System Project	16,250
	NW-3	Legal Framework for Agricultural Water Use	170
	NH-4	Recharge Dams	48,025
the second second	NW-5	Sub-surface (Underground) Dams	2,500
	NW-6	Aflaj	29,670
4.1	NW-7	Wells	9,000
	NV-8	Springs	1,969
	NW-9	Erosion Control and Protection of Agricultural Land	3,870
	" "	against Floods	
	NW-10	Survey and Monitoring	4,264
	1	<u> </u>	9,625
Agricultural	NAR-1	Support for Agricultural Research Stations	2,710
Research	NAR-2	Establishment of New Research Units and	3,075
		Laboratories	-
	NAR-3	Development and Establishment of Experimental Farms	1,040
		and Nurseries	•
	NAR-4	Forestry-Improvement Program	1,000
	NAR-5	Establishment of Locust Survey and Central Unit	1,000
	NAR-6	Soil Surveys	800
			14,123
Agricultural	NAE-1	Improvement and Development of Extension Centers and	3,520
Extension		Facilities	
2,100,101,011	NAE-2	Establishment of Development Support Communication	1,190
		Center(DSCC)	-
	NAE-3	Training of Researchers, Extension Staff and Statistics	1,503
•		Staff	
	NAE-4	Intensive Extension Guidance Program	7,910
	1 1		12,960
Agricultural	NAA-1	Collection and Organization of Agricultural Statistics	1,360
Production	NAA-2	Agricultural Exhibitions and Festivals	700
	NAA-3	National Project for Plant Protection and Aerial Spraying	5,000
•	NAA-4	Agricultural Technology Transfer to Farmers Project	5,000
	NAQ-1	Development and Improvement of Plant Quarantine	900
		20.010 Part Inp. 50.010 Value Va	47,546
Livestock	NLL-1	Rangeland Revegetation Project in Southern Region	2,352
	NLL-2	Animal Health and Disease Control Project	16,425
	NLE-1	Livestock Extension Development Project	482
	NLR-1	Livestock Research Development Project	4,050
	NLM-1	Livestock Marketing Improvement Project	6,371
		Livestock Input Company Project	1,359
	NLL-4	Small Farm Development Support Project	15,285
		Livestock Specialized Services Program	1,222
			15,397
Distribution	ND-1	Establishment of Wholesale Market	3,656
,	ND-2	Supply and Demand Forecast of Agricultural Produce	444
	ND-3	Establishment of Shipping Organization for Farmers	1,220
	ND-4	Fortification of PAMAP	10,077
			10,474
Agricultural Produce	NP-1	Establishment of Private Company for Agro-Industry and	5,100
Processing		Supply of Agricultural Inputs and Services	
	NP-2	Establishment of Agro-Industrial Complex for Processing	1,134
	[[of Dates. Limes and Tomatoes	,
	NP-3	Establishment of Pickling and Vinegar-Processing Plant	1,614
<u> </u>	NP-4	Establishment of Coconut-Processing Plant	2,626
			32,333
Inter-Sectoral	NI-1	Integrated Agricultural Development Project in Nejd	13,242
	N I - 2	Improvement and Maintenance of MAF Facilities	16,991
	N I - 3	Artificial Rainfall Project	0
		Citizen's Compensation against Natural Crisis	1,500
	U	Olergen b compensation against navares of your	
	0 I - 1 0 I - 2	Master Plan for Development of Date Palm Cultivation	600
		Master Plan for Development of Date Palm Cultivation	
Total		Master Plan for Development of Date Palm Cultivation	600 277,976

Table 5.2.2 Annual Budget Total - 5-Year Plan

_	_			
20.	23.117 982	3,886	29,538	34.896
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	Ц		9.688	11.475
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	-	1,282	332	318
L	5	1.788	1.798	1.595
		382	325	315
		8	588	528
	270	295	195	163
		000	500	800
		209	200	288
		202	280	200
6		CV.	2.432	2.376
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	9 504	202	204	284
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			3,961	9.505
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L			792	837
	1,		1.734	1.529
٣	ຶ		3.078	3.088
			7 192	8.428
		ï	459	2.803
			128	
			326	928
-		1	622	282
	L	L		
		_		
			158	
ł	L	L	472	288
			4.411	6,866
$\ \ $			3,311	4.956
-			888	366
			388	308
277.976 49.814	796			
		20.102	20000	47
원진 사람들의 학생님의 사람들이 가지 않는 것이 되었다. 그는 사람들이 나라를 다리하고 있다면 하는 사람들이 되었다면 하는 사람들이 되었다.		2 2 50 7 2 8 3 2 6 2 8 3 3 2 6 2 8 3 3 2 6 2 8 3 3 3 2 6 2 8 3 3 3 2 6 2 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2. 500 2. 500 3. 3. 520	2.500 2.500 3.750 5.7 6.20 583 3.800 6.7 6.20 5.500 3.750 3.7 8.500 5.7 45 45 8.750 3.750 3.7 8.750 3.750 3.7 8.750 3.750 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7 8.750 3.7 3.7

Table 5.2.3 Annual Budget of Irrigation and Dam Sector
- 5-Year Plan

NH-1						All the		
Nu-1 Improvement of Irrigation System and Centrally- 19,800 628 998 3,800 6,360 8	PROJECT	NAME OF PROJECT/PROGRAM	5 YEAR		ANNUAL B	UDGET RE	OUIREMEN	1
NP-1 Ingrovement of Irrigation System and Centrally	NUMBER		TOTAL	1991	1992	1993	1994	1995
Controlled Water-Distribution System 1.588 320 488 339 248			(1808RO)					
Controlled Water-Distribution System 1.588 328 488 389 248 380 380	พพ-1	Improvement of Irrigation System and Centrally-	19,800	629	980	3,800	6,368	8.040
Study Phase (Prof. Prof. 1.680 320 340 390 240			· · · · · · · · · · · · · · · · · · ·	1				
Pilot Project			1.588	328	489	389	240	249
Nu-2 Subsidy for New Irrigation System Project for 30,800ha 16,250 2,500 3,750					500	3.509	6 120	7.889
NN-2 Subsidy for New Irrigation System Project for 30,000ha 16.250 2.500 2.500 3.750 3.7				300				
Nu-3 Legal Framework for Agricultural Water Uso	NU-2	Subaldy for New Irrigation System Project for 30 898ba	16.250	2 500	2.500	3 750	3 750	3.750
NU-4 Recharge Dams		Sposity for New Tilligotion System Froject for Schwadia	101200	21000	2.300	3,100	0,100	01100
NU-4 Recharge Dams	NII - 3	Linear Community on Analysis to Date and the	120		48	45	·	. 80
NW-4-1 Study Phase	14-3	redai Flawshork for Hailcoirgist Marai Dae	1.0		45	. 43		. 00
NW-4-1 Study Phase			40 005	0.050		0.150	0.000	11 175
Study Phase 3.750 750			40.000	8,359	8,150	9,460	9,686	11.475
Construction Phase 38,280 6,600 7,600 7,500	NW-4-1		A 700					
NH-4-2		Study Phase						758
Constructed Dama								9.200
NH-4-3 Repaired Neter Effective Use Pilot Project (Study) 258 50 50 50 50 50 NH-4-4 Identification of New Groundwater-Recharge Schemes 3.588 780	NN-4-2		2,325	258	250	450	688	775
NN-4-4 Identification of New Groundwater-Recharge Schemes 3.598 780 788 780								
Number Sub-Surface (Underground) Dams 2.580 75 188 180		Recharged Hater Effective Use Pilot Project(Study)	25B				58	59
Reconnaissance Study 75 75	NW-4-4	Identification of New Groundwater-Recharge Schemes	3.598	700	798	709	700	788
Reconneissance Study				-				
Preliminary Study	หน− 5	Sub-Surface (Underground) Dams	2.588	75	108	188	189	1.965
Feasibility Study		Reconnaissance Study	75	75				
Feasibility Study			159		198	59		
Pilot Project (Construction) 1,998					<u> </u>	199	150	58
Observation and Monitoring 75			1.989			,		1,988
NW-6 Affaj 29.678 5.158 6.278 6.118 6.878 6 NW-61 Repair and Haintenance of Affaj 24.808 4.808 4.808 4.808 4.808 4 NW-6-2 Distribution System Improvement Pilot Project in 758 150 150 158 158 Oasis(Study) NW-6-3 Improvement and Haintenance of Hajor Affaj 928 208 320 160 120 Study 928 208 320 160 120 Construction 4.808 1.808						36	30	15
NW-6 Affaj					 	75	<u>~</u> _	
NW-6-1 Repair and Maintenance of Aflaj 24.986 4.888	VII. 6		20 670	E 150	6 279	6 119	6 078	6.078
NW-6-2 Distribution System Improvement Pilot Project in 758 158								4.888
Oasis(Study) NH-6-3 Improvement and Maintenance of Major Affaj								
NW-6-3 Improvement and Haintenance of Hajor Aflaj 928 298 320 160 120	un-e-5		156	150	120	120	150	150
Study			·					
Construction	NH-6-3				L			
NW-7 Hells 9.808 1.888 1				289	L			128
NW-7-1 Subsidy for Repair of Existing Open Wells 3.808 690 680		Construction	4.898	,	1.800	1,000	1.000	1.000
NW-7-1 Subsidy for Repair of Existing Open Wells 3.808 690 680	·							
NW-7-2 Assistant Wells for Aflaj 6,880 1,288 3,58 3,58 3,58 3,58 3,58 3,58 3,58 1,888<	7-WN							1.800
NW-8 Springs 1,989 370 375 378 416 NW-8-1 Improvement of Springs 1,758 350 350 350 350 350 350 NW-8-2 Annual Maintenance of Open Channel for Spring 219 20 25 28 66 NW-9 Erosion Control and Protection of Agricultural Land 3,878 70 760 1,848 1,830 against Floods 270 70 50 50 50 50 Construction Phase 270 70 50 50 50 50 Construction Phase 3,860 718 998 988 NW-18 Survey and Monitoring 4,264 1,197 1,137 1,282 332 NW-18-1 Long-term Plan for Areal Photography and Ortho-photo 1,118 258 217 217 217 Happing 4	NW-7-1	Subsidy for Repair of Existing Open Wells		899	680		698	689
NN-8-1 Improvement of Springs 1.758 358	NW-7-2	Assistant Wells for Aflai	6.898	1.289	1.200	1.200	1,288	1,288
NN-8-1 Improvement of Springs 1.758 358								
NN-8-1 Improvement of Springs 1.758 358	1W-8	Springs	1,989	379	375	378	416	438
NW-8-2 Annuel Maintenance of Open Channel for Spring 219 20 25 28 66	NW-8-1	Improvement of Springs	1.750	359	359	359	350	358
NN-9 Erosion Control and Protection of Agricultural Land 3.878 78 760 1.848 1.838 against Floods Study Phase 278 78 58 58 58 58 Construction Phase 3.698 718 998 988 NN-18 Survey and Monitoring 4.264 1.197 1.137 1.282 332 NN-18-18 Long-term Plan for Areal Photography and Ortho-photo 1.118 258 217 217 217 Happing	NH-8-5	Annual Maintenance of Open Channel for Spring				28	66	86
against Floods 276 78 58 50 58 Study Phase 276 78 58 50 58 Construction Phase 3.688 718 998 988					····			
against Floods	NU-9	Ecosion Control and Protection of Agricultural land	3.878	79	760	1.848	1.939	970
Study Phase 270 78 50 50 50 50 50 50 50 5					1	.,,,,,,,		****
Construction Phase 3.888 718 998 988			270	70	5.0	50	50	58
NU-18 Survey and Monitoring 4,264 1,197 1,137 1,282 332 NV-18-1 Long-term Plan for Areal Photography and Ortho-photo 1,118 258 217 217 217 Happing				10		1		928
NW-18 Survey and Monitoring 4,264 1,197 1,137 1,282 332 NW-18-1 Long-term Plan for Areal Photography and Ortho-photo 1,118 258 217 217 217 Happing			3,000		1	330	300	320
NW-18-1 Long-term Plan for Areal Photography and Ortho-photo 1,118 258 217 217 Happing						1 225		
Happing .								316
	พพ-เพ-เ		1,118	258	217	513	217	217
				· .				
NW-10-2 Establishment and Operation of hydrological 3,148 947 928 1,965 115	NW-10-2		3,146	947	928	1,865	115	99
Monitoring Network for Recharge Dams		Monitoring Network for Recharge Dams						
TOTAL DEUELOPMENT BUDGET TOTAL 135.518 20.132 23.117 27.835 28.530 34	TOTAL	DEVELOPMENT BUDGET TOTAL	135,518	20.132	23.117	27,835	29,538	34.896
							···	

Table 5.2.4 Annual Budget of Agricultural Research Sector - 5-Year Plan

PROJECT	NAME OF PROJECT/PROGRAM	TOTAL		RNNUAL	BUDGET		
NUMBER	;	BUDGET	1881			1394	1995
		1888RO>		-		-	
NAR-1 SUPPORT	ORT FOR AGRICULTURAL RESEARCH STATIONS	2,710	1,035	848	385	325	315
NAR-1-1 AGRIC	AGRICULTURAL RESEARCH FACILITIES AT RUMAIS	662	200	160	100	138	188
	AGRICULTURAL RESEARCH FACILITIES AT JEMMAH	688	358	7.8	7.8	88	58
	AGRICULTURAL RESEARCH FACILITIES AT SALALAH	875	350	138	85	65	65
- 7	RESEARCH FACILITIES	699	69	328	128	ତ୍ର	80
	RESEARCH	235	- 75	48	48	49	48
NAR-1-6 AGR 10							
							Ÿ
	ESTABLISHMENT OF NEW RESEARCH UNITS AND LABORATORIES	3.075	875	890	416	580	520
	AGRICULTURAL MACHINERY RESEARCH UNIT AT RUMAIS	475	215	- 65	85	. 65	65
	TOXICOLOGY LABORATORY (RUMAIS)	235	94	100	30	1.5	15
NAR-2-3 SEED	SEED AND TUBER PRODUCTION RESEARCH UNIT (RUMAIS)	18	1000	28	20	28	10
	RAL SOIL, PLANT AND WATER ANALYSIS LABORATORY (RUMAIS)	680	386	12	75	75	75
	LIBRARY AND DOCUMENTATION CENTER (RUMAIS)	240		168	38	52	25
	NU NOITE	188		106	1		
NAR-2-7 MEDIC	MEDICAL AND PERFUME PLANT RESEARCH UNIT (SALALAH)						
NAR-2-8 DISE	AR-2-8 DISEASE AND PEST FORECASTING UNIT (RUMAIS)	160	100		28	20	
NAR-2-9 SALT	SALT TOLERANT PLANTS AND MALOPHYTES RESEARCH UNITS (RUMAIS)	288		1		188	100
NAR-2-10HONE	AR-2-10HONEY BEE LARORATORY (RUMAIS)	140	29	52	. 25	28	20
NAR-2-11 HONE		65	22	15	12	3	1.29
NAR-2-12HONEY	338	58	13	15	1.8	uγ	ເດ
NAR-2-13DATE	۳J	808	288	115	92	195	195
ł							
- 1	DEUELOPMENT AND ESTABLISHMENT OF EXPERIMENTAL FARMS AND NURSERIES	1.040	120	270	295	195	180
-	OF ARABIC COFFEE EXPERI	135			56	45	48
	OF NURSERIES	220	128	49	36	28	3
	DEUELOPMENT OF NURSERIES AT SOHAR	186		40	29	26	28
	OF NURSERIES IN	388		150	88	48	39
	DEUELOPMENT OF NURSERIES IN SOUTHERN REGION	180		40	28	28	28
	9 F	115			65	25	52
NAR-3-7 DEUE	EXPERIMENTAL FARM AT	7.3			38	25	12
	OF EXPERIMENTAL FARM AT				1		
NAR-3-9 DEUE	DEUELOPMENT OF EXPERIMENTAL FARM AT DHAHIRA						
NAR-4 TORE	FORESTRY-IMPROVEMENT PROGRAM	1,688	288	200	200	202	209
NAR-5 ESTA	ESTABLISHMENT OF LOCUST SURVEY AND CENTRAL UNIT (RUMAIS, ALL REGION)	1.000	200	288	200	283	200
NAR-6 S01L	SOIL SURVEYS	800		288	200	288	200
TOTAL DE	DEUELOPMENT BUDGET TOTAL	9,625	2,438	2.288 1.788	1,788 1	1.708	1.595
					1		

Table 5.2.5 Annual Budget of Agricultural Extension Sector - 5-Year Plan

SUDGET 1991 1992 1993	PROJECT	NAME OF PROJECT/PROGRAM	PR10.	TOTAL		ANNUAL	BUDGET	1		
INTERNAL SHEET OF EXTENSION CENTERS AND FACILITIES 3.520	NUMBER			BUDGET	1991		1993	1994	1995	
INPROVEMENT AND DEVELOPMENT OF EXTENSION CENTERS AND FACILITIES			Ē	(188880)						
ESTABLISHMENT OF EXTENSION CENTERS IN REHOTE AREA INPROVEMENT OF EXTENSION CENTER FACILITIES DEVELOPMENT OF AGRICULTURAL TECHNOLOGY INFORMATION UNITS (ATIU) ESTABLISHMENT OF DEVELOPMENT SUPPORT COMMUNICATION CENTER (DSCC) INTENSIVE EXTENSION GUIDANCE PROGRAM SUPPORTING NET SHARE EXTENSION STAFF AND STATISTICS STAFF INTENSIVE EXTENSION GUIDANCE PROGRAM DATE FALM REHABILITATION & IMPROVEMENT PRORGRAM DEVELOPMENT BUDGET TOTAL DEVELOPMENT BUDGET TOTAL 14.123 8.737 2.838 2.742	NAE-1	IMPROUEMENT AND DEVELOPMENT OF EXTENSION CENTERS AND FACILITIES		3,520	764	794	772	634	584	,,,,,
-2 IMPROVEMENT OF EXTENSION CENTER FACILITIES -3 DEVELOPMENT OF AGRICULTURAL TECHNOLOGY INFORMATION UNITS (ATIU) -3 DEVELOPMENT OF AGRICULTURAL TECHNOLOGY INFORMATION UNITS (ATIU) -1 SUPPORTING OF RESEARCHERS. EXTENSION STAFF AND STATISTICS STAFF -1 SUPPORTING KEY FARMER EXTENSION PROGRAM -1 SUPPORTING KEY FARMER EXTENSION PROGRAM -2 DATE PALM REHABILITATION & IMPROVEMENT PRORGRAM -3 PROUISION OF INDUTS FOR EXPERIMENTAL PURPOSES -4 DEVELOPMENT BUDGET TOTAL -4 DEVELOPMENT BUDGET TOTAL -5 DATE PALM REHABILITATION & IMPROVEMENT PRORGRAM -6 SOUTH STATE	NAE-1-1		α	488	128	158	188	28		· · ·
ESTABLISHMENT OF AGRICULTURAL TECHNOLOGY INFORMATION UNITS (ATIU) A 1.588 S08 S08 S08 S08 S08 S08 S08 S08 S08 S	NAE-1-2	INPROVEMENT OF EXTENSION CENTER FACILITIES	α	1,628	364	344	344	284	284	
ATISTICS STAFF A 1.583 689 204 204 204 1.582 1.5	NAE-1-3	DEVELOPMENT OF AGRICULTURAL TECHNOLOGY INFORMATION UNITS	ά	1,588	300	388	362	330	388	
TRAINING OF RESEARCHERS. EXTENSION STAFF AND STATISTICS STAFF A 1.588 782 284 284			-			:				
TRAINING OF RESEARCHERS, EXTENSION STAFF AND STATISTICS STAFF A 1,583 689 204 204	NAE-2	ESTABLISHMENT OF DEUELOPMENT SUPPORT COMMUNICATION CENTER (DSCC)	α	1,190	702	258	- 212	12	9	
TRAINING OF RESEARCHERS, EXTENSION STAFF AND STATISTICS STAFF A 1,583 689 204 204			-							·
A 1.580 308 308 308 308 308 308 4 5.910 1.182 1.	NAE-3	EXTENSION STAFF AND	α	1,583	689	204	284	204	204	
7.910 1.582 1.582 1.582 1.582 1.582 1.582 1.582 1.182									\$ 1.00 m	
A 1.580 300 300 300 300 300 300 300 300 300 3	NAE-4	INTENSIVE EXTENSION GUIDANCE PROGRAM		7.910	1.582	1,582	1.582	1.582	1,582	
A 5.910 1.182 1.18	NAE-4-1	SUPPORTING KEY FARMER EXTENSION PROGRAM	α	1.588	388	388	308	388	388	
PROUISION OF INPUTS FOR EXPERIMENTAL PURPOSES DEUCLOPHENT BUDGET TOTAL 14.123 3.737 2.838 2.742 2.	NAE-4-2	DATE PALM REHABILITATION & IMPROVEMENT PRORGRAM	α	_	1,182	1.182	1.182	1:182	1.182	
DEVELOPMENT BUDGET TOTAL	NAE-4-3		σ	500	198	188	081	186	180	<u>_</u>
DEVELOPMENT BUDGET TOTAL										
DEUELOPHENT BUDGET TOTAL									100	ر د د
	TOTAL	DEVELOPMENT BUDGET TOTAL		14.123	3.737	2,838	2,742		2.376	i

Table 5.2.6 Annual Budget of Agricultural Production Sector - 5-Year Plan

	1995						(U)		58		,000		,000		2,050						353	
<u>, </u>	1994		121	 	.121		262	212	50		=		,000 1	l	4	•	l	200	-		583 2	-
BUDGE	1993		225	5.0	175		63	13	50		600 1		1,000 1		288 2		÷	100			388 2	-
RINNE	1992		639	350	280		29		50		000		000	-	680 2			400			080 2,	_
	1991		384	300	84		27.5	225	.53		000 1		000 1,		2,659 2,680 2,288 2,383			206	_		859 3,	<u>-</u>
TOTAL	BUDGET	(1000RO)	368	700	660		200	450	250		5,000 1,000 1,000 1,000 1,000		5,000 1,000 1,000		12,060 2			006			12,960 2,859 3,080 2,388 2,583 2,858	
NAME OF PROJECT/PROGRAM	X		LL.	AGRICULTURA	2 HANNUAL UPDATE OF IMPORTANT AGRICULTURAL STATISTICS	70,000	HGK COL OKHL EXHIBS I LON HND FESTIV	N LEKNET	2 DOMESTIC AGRICULTURAL PESTIVAL		NHILDNAL PROJECT FOR PLANT PROTECTION AND REGIAL SPRAY	1.	HERITOGE OKHE JECHNOLOGY IKHNOTER PROJECT TO FARMERS	•	NAA TOTAL			DEVELOPMENT & IMPROVEMENT OF PLANT QUARRANTINE			DEVELOPMENT BUDGET TOTAL	
PROJECT	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		NAR-1		NAH-1-2	001	1100	7	NHH-Z-Z	Ł	0 - HUNI	5	t C C 2					1-06N			TOTAL	

Table 5.2.7 Annual Budget of Livestock Sector - 5-Year Plan

PROJECT NAME OF PROJECT/PROGRAM	.pR10.	TOTAL		PANNUAL	BUDGET		
	,	BUDGET	1991	13	1993	1994	1995
NLL-1 Rangeland Revegatation Project in		(18BBRD)					
		2,352	576	576	486	499	463
Θl	Œ	352	176	178			F
	හ	2,000	488	783	488	290	400
G.		16,425	3 837	2.971	3,237	3,650	3.538
Θĺ	Œ	1,975	382	395	395	395	395
കി	α	1,188	238	238	533	238	236
	α	688	388	20	28	293	3.8
ച	0	98			38	38	38
	ď	8.882	1.369	1.595	1.831	1:971	2.116
	on —	3.888	888	ଚଉନ୍ତ	688	888	ଉପତ
Net-2-60 Brucellosis Control in South	8	621	129	123	123	123	123
- ار		482	196	38	36	196	38
NE-1-1 @ Extension Method Improvement.	đ	158	38	36	38	35	38
+2							
5							
Establishment of							
NLE-1-업용 Training Center Development	മാ	338	186			166	
1		-					
<u>-</u>	-	4.852		792	792	792	837
O Development of Li	9:5 B	2,833		827	486	486	486
NLR-1-20 Research Centers Management Consultancy	-	2,853	437	28E	392	355	437
Livestock Marketing Impro	1000	6,371	678	139.1	872	1:734	1.529
	Œ	1.516	(3) (3)	868	288	228	288
NLM-1-2© Cattle Fattening	8	186	17.0			5.0	138
Cut Meat Processing	u	487				171	316
✐	æ	1.181	52	211	88	729	128
Hides and Skins Dave	٥	36					192
0	a	2,598	589	580	588	583	525
NLM-1-70 Marketing Promotion	0	335		78	9.5	34	83
			: .				
NLL-3 Livestock Input Company Project	aa	1,359		376	686		
		100	1	000		(000
Salar raria peveropiani		15, 235	-4-	9 9	040	0 10	200
<u>ا</u> و	ا	8,855		1,754	1,772	1770	1.794
A Intensive Livestock Procu	σ	9 . S	-	1,274	1.274	1.274	1.276
NLL-4-9@ A.I. Services for Dairy Com	æ	89	60			88	
Livestock Spe		1.222	778	111	111	111	111
① Livestock Census	æ	524	524		7		
<u>@</u>	8	55	1.1	11	11	11.	1.1
0	σ	143	143				1.5
NLL-5-2色 Consultancy Services(Study)	α	୨୫୫	188	188	188	103	138
Totsi		47.546	9.864	9,545	9.471	9.961	9.585
	-					- 1	
Percentage			19.1	20.1	19.9	21.0	20.0

Table 5.2.8 Annual Budget of Distribution Sector - 5-Year Plan

DESCRIPTORECT	PROJECT	NAME OF PROJECT/PROSRAM	PR10.5	YEAR		Q 1220	BUDGE		
NUMBER	NUMBER	A STATE OF THE STA			1991	1992		1994	1995
								:	
Z0-1	N 1 - 1	χi	α	322	243	46	39		
	NM-1:1	ON ESTABLISHING		218	218				
	NH-1-2	1 OF DISTRIBUT		33	33				
	NA-1-8	"MPLEMENTATION ON EXPANSION OF DESTRIBUTION VOLUME IN PAMAP		t		ŀ		ı	1
-	NA-1-4	PAMAP FOR IN		79		48	33		
	NH-2	FILOT WHOLESALE MARKET	В	524			72	388	72
	NU-2-1	PERBITON OF PILOT WHOLESALE MERKET (SUPPORT BY CONSULTANT)		218			72	22	22
	Nn-2-2	METALL DESIGN ON MHOLESALE MARKET		388				388	
			•	-					
	%n−3	PERPTION OF	Œ	2.818				7.9	2,731
 -	NM-3-1	CONSTRUCTION OF WHOLESALE HARKET		2,526					2,526
	NM-3-2	CT 10		126					126
	NH-3-8	TRAINING STAFFS FOR OPERATION OF WHOLESALE MARKETS (SUPPORT)		158				48	7.9
	SUBTOTAL			3,656	243	40	111	459	2.883
ND-2	V-UN	ING PROGRAM	Œ	248	158	99	12	12	
. 	NR-4-1	SN .	_	86	98				
	NH-4-2	9 2 1		43		43			
	NH-4-3	Odd(S)		47		23	62	12	
	NM-4-4	1CAT 10N		56	26				
	NM-4-5	INTRODUCTION FOR PRICING POLICY (STUDY)		26	26				
	NH-5	ON & PUBLICATION OF SUPPLY AN	σ	144		4,8	48	48	
	9-HN	MEASURES FOR ADJUSTMENT OF SUPPLY AND DEMAND (STUDY)	a	89				89	
				_					
	티		-	444	158	-	8	120	
ND-3		SHIPPING ORGENIZATION FOR	ď	168		168			
	- 1	OF SHIPPING ORGENIZATION FOR FARMERS	α	1.068			328	326	428
		OF SHIPPING		68			20	29	28
	4M-8-2	비		1.888			386	368	496
	41010						000	200	
,	HIGHE		1	1,228	Š		350	350	44.0
4-07	8-MN	PROGRAM FOR MAIN DIS RBUTION CHANNELS IN	a	- 1	180	288			÷-
	NA-10	STRENGTH PROGRAM FOR MAIN DISTRBUTION CHANNELS IN PAMAP	α	9,689			3.283	3,283	3.283
	OTOTOLO		+	220 01	00.	000	0 000	0000	- 7
	10000	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1	-4	000	000	\$ 603	\$ 600	- 5
TOTAL		SECELOPHENI BUDGET 101AL		15,397	573	9	3.694	4, 182	0.426

Table 5.2.9 Annual Budget of Agricultural Produce Processing Sector - 5-Year Plan

PROJECT	T NAME OF PROJECT / PROGRAM	ו דסדמו		AUNUA	ANNUAL BUDGET	_	
NUMBER		BUDGET	1391	1992	1993	1984	1995
		(1888RD)					
N-0-1	Establishment of Private Company for Agro-Industry and	5, (00	102	2.508	2,500		
	Supply of Agricultural Inputs and Services						
8-dN	Establishment of Agro-Industrial Complex for Processing of	1.134	148	430	106	150	
	Dates, Limes and Tomatoes						
8-48	Establishment of Pickling and Uinegar-Processing Plant	1.614	132	1.482			
NP-4	Establishment of Coconut-Processing Plant	2,626	1.390	152	412	472	200
	Coconut Farm	2.100	1.398	138	160	220	208
	Coconut-Processing Plant	526		25	252	252	
TOTAL	DEVELOPMENT BUDGET TOTAL	10.474 1.778 4.564 3.318	1.778	4.584	3.318	622	208

Table 5.2.10 Annual Budget of Inter-Sectoral Project - 5-Year Plan

PROJECT	NAME OF PROJECT/PROGRAM	PR 10.	TOTAL		ANNUAL BUDGET	SUDGET		
NUMBER			BUDGET	1881	1992	1993	1994	1995
			(1000RO)					
1-12	Integrated Agricultural Development Project in Nejd	α	13 242	1.855	1.655	1,855	3,311	4.966
	1) Pilot Farm (5gha)		1,655	1,655				
	2) Main Development Project (450ha)		11,587		1:655	1.655	3,311	4.966
N1-2	Improvement and Maintenance of MAF Facilities	α	16,991	5,895	5.896	3,688	800	888
	1) Ministry Building		5.191	2,555	2,596			
	2) Office Building for Directorate General of Agriculture		7.808	2.500	2,500	2.808		
	in 6 Regions							
	3) Separate Consolidated Allocation for All Consultancies		4,228	388	820	808	880	800
01-1	Citizen's Compensation against Natural Crisis	Œ	1.588	388	308	308	388	399
. :							1	7.86
91-5	Master Plan for Development of Date Palm Cultivation	α	009	089				
TOTAL	DEUELOPMENT BUDGET TOTAL		32,333	8.450	7,851	5,555	4.411	6.866
						-		

Table 5.2.11 Regional Budget Total of 5-Year Plan

nusanban	2.597	163	6	922.2		3.0			11	119			. 61	1	9 60	ŀ	568	284		44	248	263	27	36	133		955	1981	S		13	342	37	61			16	182	192					7,8,1	1.338		33	12	900
JANUSIYA	3.120	978	\$	35	3	120	1,969	25	287	1,885	675	185	235	3	388	480	755	283		217	255	1.217	85	36	350	489	28.323	2,352	219	1.381	5.332	3.987	128	1.811		1 22	746	2,779	153				2.626	13.242	1.678		45	-18	7,7
онантка	19.722	1,263	1.7	588	5,580	2.889		52	549	280 [99	9.0	1.985	643		143	1,200	1.272	136	36	453	283	4.886	2 267	18		7.2	1.782	147	619			254	518	513					200.1	1.658		150	29	
REGION DAKHLIYA	32.474	2.275	24	2.095	11,199	1.628		3,780	944	1,425	689	65	415	,	1 60	88	2.530	737		163	1.630	1.326	196	36	558		6.353	966	200	973	99	586	122	1.863		-	000	1,289	714	1100	4 0			2010	8:8:		210	84	0.0
SHAROIYA	15.318	2.113	26	2 CO	5,883	2.208		95	427	695	235				200	168	2.594	561		133	1,930	1,640	204	36	788		4.415	-	18		72	0 450	147	1.16			000	785	765					001.7	1,850		225	38	
BATINAH	55.723	8,936	88	388	6.689	2.898		62	1 981	5, 158	1,288	2.858	320		000		4.638	840		765	2.425	6,115	689	38	2.733		9.638		284	1,696	143	2.425	336	3,845	13		3 27	3,925	2,652	207	604	807		4, 666	3,338		780	312	
MUSCAT	1,982	325	2 3	6225	1.220	69			45	88				,	67		1.661	172	1,198	68	260	1,127	4.1	485	0.00	383	586	0	000		1.9	376	37	8.736	3.577	444	165	1.194	504	C.		807		5.435	5.351		88	24	4
TOTAL BUDGET	135,518	16.250	178	2.506	29,679	9,888	1,369	3,878	4.264	9,625	2,718	3,875	1,849	000	999	890	14.123	3.528	1.196	1,503	7,918	12,968	1,360	- [5.888		47,545	2,352	10,429	4.050	6.371	1.359	1.222	15,397	3,656	444	1.220	18.474	5.130		1.34	1,614	2.626	32,333	16.391	3	1,500	ଜନନ	42.0
NAME OF PROJECT-PROGRAM	Improvement of irrigation Syst		Legel Fremetory for Apricoltural Mater Use	Sub-surface (Underground) Dess		1,001.00		Erosion Control and Protection of Apricultural Land	Survey and Monitoring		ricultu	Establishment of Not Research Units and	Development and Establishment of Experimental Farms	SOLLOSULON DEB	Felast 9-Introvendat, Violate And Central Int.	Soil Surveys		Improvement and Davelopment of Extension Centers and Thocilities	Establishment of Development Support Communication Center (BSCC)	Training of Researchers. Extension Staff and Statistics	Intensive Extension Guidance Program		Collection and Organization of Agricultural Statistics	National Drollect for Diags Sactivals	Perioditoral Technology Transfer to Bargers Project	Development and improvement of Plant Quarant		Column Health and Disease Control Columns Region	tension Developmen	Livestock Research Development Project		Shall Farm Dave Company Project	Specialized Services		Establishment of Wholesale Market	Supply and Demand Forecast of Agricultural Produce	TRACED TOTAL TOTAL OF UNITED CHOST NATION TOTAL TRACED OF TRACED O		of Privat	cultural inputs and Services	Establishment of Moro-Industrial Complex for Processing of Dates, Lines and Topstoes	Establishment of Pickling and Uinegar-Processing Plant	Soconut-Proce	Total Oct total	MAN FACILITIAN	Artificial Rainfall Project	Netural Cr	Date	
PROJECT	אחר	0 - 3 N	6-4N	NULS	Φ.I.3.K	NU-7	8-MN	0 3 3 2	NU-10		NAR-	N PR - 2	NAR-3	4	NAR-S	20 R - 8		NAE-1	NAE-2	NAE-3	7-36N		1-88N	NDB-12	NAB-4	N90-1		N 1 - 2	NLE-1	N.R.	- K - K	N L L N	NFL-5		NO - 1	0 C	2 Z	+	NP-1	0.02		6-98		2	- N	N - 3	01-1	2-10	
SECTOR	Irrigation and Dam										Agricultural	Research					-	Agricultura) Extension					Apricultoral	roguetion				Liveutook							Distribution				Apricultural Produce	Process : 20				Inter-Sectoral					•

Table 5.2.12 Regional Budget of Irrigation and Dam Sector - 5-Year Plan

PROJECT	NAME OF PROJECTIVPROGRAM	S YEAR				REGION			
NUMBER		TOTAL	MUSCAT	HENLIA	SHARGI YA	DAKHLIYA	BATINAH SHARGIYADAKHLIYADHAHIRA JANUBIYAHUSANDAN	ANLB 1YOF	USANDAM
		(1686RO)							Ì
36.	Improvement of Intigation System and Centrally-	19.886		11.160	1.448	2 188	1,588	3,120	
	Controlled sater-Ulathiouthon System			6	876	860	989	100	
		1,060		1 P C C C	299	888	1728	3.988	
2 - 12	Subsidy for New Irrigation System Project for 30,888ha	16,250	325	8.936	2,1:13	2.275	1,483	915	163
ν. - Ν.	Legel Francework for Sorioultural Water Use	178	2	88	28	24	-11	\$	~
4 - M2	Secreto Desa	48.00.5	325	818	4 319	8.526	7.993	1.254	2.083
NW-4-1	Groundwater-Recharge Scheme	22							
	Study Phase	3.758	383	1.718	388	728	428	188	288
	Construction Prase	38.206		28,888	3.888	7,288	4.200	1.038	2.889
N. 1. 4 - 1.2	Haintenance and Improvement of Existing and Newly	2,325		1 833	194	581	323	129	88
	Constructed Dams								
NW-4-3	Recharged Water Effective Use Pilot Project (Study)	250	52	15	25	25	5.6	25	25
NU-4-4	identification of New Groundwater-Recharge Schemes.	3.580			588	,	3,808		
			1		Ī			1	
200	Sub-surred (Underground) Desd	2.588		388	32	2,885	e e	38	
	Xecond indence study	75		32	9	3.0	33	2	T
	Apply Alegan	158		7	ć,	52	ŝ	83	
	Festibility Study	383		200		196			
	Pilot Project (Construction)	1.988		1		1.988			
	Observation and Monitoring	75		15		63			
9-11	213	29,670	1.228	6, 580	5.988	11.138	5.580		
NE-6-1		24.969	1,288	5,288	3.600	9.128	4.890		
NE-6-2	Distribution System improvement Pilot Project in	758		158	158	388	158		T
	Usaciacetage								
9 0	Carly Tolor to address that are the tolor of the tolor		į	1	0.50	25.0			
	74 ************************************	926	2	220	962	912	36.7		
		4.000			000	000	3		T
L-NN	101	9,383	89	2,838	2.288	1.628	2,889	120	33
(12-32	Subaido for Repair of Existing Open Melis	3.868	89	1.698	488	428	283	28	39
7-7-WN	Assistant Wells for Aflaj	6,000		1.200	1,800	1,209	1.386		
8 - 3 N	Springs	1.969						1.969	
- B-32	aprovement of Springs	1,750						1.758	
N-8-42	Handel Reintenance of Open Chennel for Spring	218						219	T
0) - 1.X	Erosion Control and Protection of Apricultural Land	3.878		7.0	5.8	3.788	25	25	T
	Floods								
	Study Phase	278		7.6	25	100	52	25	
	Construction Phase	3.602				3.688			
									2.1
NW-18	Survey and Monitoring		45	1.981	427	944	548	287	111
NW-18-1		118	45	583	188	157	112	35	24
	Napping					,			
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	House to the Control of Control of Systems Control of C	2		22	202	2	2.5	2	<u>.</u>
TOTAL	DEUELOPMENT BUDGET TOTAL	135,518	1.982	55,723	15,318	32.474	19.722	7,718	2,597

Table 5.2.13 Regional Budget of Agricultural Research Sector - 5-Year Plan

PROJECT	NAME OF PROJECT/PROGRAM	TOTAL				REGION			
NUMBER	-	<u> </u>	MUSCAT B	RTINAH K	BATINAH SHARBIYADAKHLIYADHAHIRA	AKHL I YPI		JANUBIYAMUSANDAM	USANDAM
-		(1888R0)	_						
NAR-1	SEARCH ST	2.710		1,200	235	609		675	
NAR-1-1	ITIES AT	680		688					
NAR-1-2	AGRICULTURAL RESEARCH FACILITIES AT	ଷଷତ				609			
NAR-1-3	ITIES	675						875	
NAR-1-4	TTES AT	ଅଷତ		୧୫୭					
NAR-1-5	ITIES AT	235			235			1	
NAR-1-6	AGRICULTURAL RESEARCH FACILITIES AT DHAHIRA								
V-SQN	ARTECTORCACT CO ARTINE HOROTORY MRS. HO INTEREST ROLLS	9 27 2		898		i.		4	
-	ARCH UNIT AT	475		475		?		2	
NAR-2-2	TOXICOLOGY LABORATORY (RUMAIS)	235		235					
NAR-2-3	SEED AND TUBER PRODUCTION RESEARCH UNIT (RUMAIS)	78		70.					
NAR-2-4	CENTRAL SOIL, PLANT AND WATER ANALYSIS LABORATORY (RUMAIS)	688		888					-
NAR-2-5	ENTER (RUMAIS)	248		248					
NAR-2-6	No N	100		-			100	100	
NAR-2-7	MEDICAL AND PERFUNE PLANT RESEARCH UNIT (SALALAH)							,	
NAR-2-8		199		188					
NAR-2-9	SALT TOLERANT PLANTS AND HALOPHYTES RESEARCH UNITS (RUMAIS)	203		200					
NAR-2-18		140		148					
NAR-2-11	HONEY BEE RESEARCH UNIT (SALALAH)	65	-	,				65	
NAR-2-15	HONEY BEE RESEARCH UNIT (JEMMAH)	58				99			
NAR-2-18	NAR-2-13DATE PALM RESEARCH UNIT (RUMAIS)	868		800					
RAR-3	NT OF EXPERIMENTAL FARM	1,048		328	-	415		235	7.0
NAR-3-1	E EXPERIMENT	135						135	
NAR-3-2	NAR-3-2 DEUELOPMENT OF NURSERIES AT RUMAIS AND BARKA	228		228					
NAR-3-3	DEUELOPMENT OF NURSERIES AT SOHAR	198		186					
NAR-3-4	DEUELOPMENT OF NURSERIES IN INTERIOR	988				388			
NAR-3-5	SOUTHERN	166						138	
NAR-3-8	FARM AT	115				115			
NAR-3-7		7.0							78
NAR-3-8	FARM AT								
NAR-3-9	DEVELOPMENT OF EXPERIMENTAL FARM AT DHAHIRA								
NAR-4	FORESTRY-IMPROUGHENT PROGRAM	1,000	94	250	150	140	188	300	26
		_							
ND R - S	ESTABLISHMENT OF LOCUST SURVEY AND CENTRAL UNIT (RUMAIS, ALL REGION)	1.000	48	526	150	140	183	38	88
S I G G N	SOLI SUBJESS	600	T			00	c o	488	
0		000			201	20	2	r	
TOTAL	DEUELOPMENT BUDGET TOTAL	9,625	82	5.158	982	1,425	288	1.885	118

Table 5.2.14 Regional Budget of Agricultural Extension Sector - 5-Year Plan

ROJECT	NAME OF PROJECT/PROGRAM	PR10.	18101				REGION			
NUMBER			BUDGET	MUSCAT	BATINAH S	SHARO I YAL	Sна R@1YADAKHL!YADHAH!RA		JANUBIYAMUSANDAM	USANDAM
)	(188880)							
4AE-1	IMPROVEMENT AND DEVELOPMENT OF EXTENSION CENTERS AND FACILITIES		3.520	172	848	561	737	643	283	284
40E-3-8	ESTABLISHMENT OF EXTENSION CENTERS IN REMOTE AREA	a	468		2	: :00 :01	186	158		188
195-1-2	ARE-1-2 (IMPROVEMENT OF EXTENSION CENTER FACILITIES	ā	1.628	7.2	540	211	287	243	183	84
IAE-1-3	DEVELOPMENT OF AGRICULTURAL TECHNOLOGY INFORMATION UNITS (ATIU)	α	1,500	199	308	388	350	250	188	100
				. :						
49E-2	ESTABLISHMENT OF DEVELOPMENT SUPPORT COMMUNICATION CENTER (DSCC)	α	1.198	1.198						
4AE-3	TRAINING OF RESEARCHERS. EXTENSION STAFF AND STATISTICS STAFF	α	1,503	39	765	133	163	143	217	44
						1 1 1 1 1				
4AE-4	INTENSIVE EXTENSION GUIDANCE PROGRAM		7.918	268	2.425	1,988	1.638	1.283	255	240
19E-4-1	AE-4-1 SUPPORTING KEY FARMER EXTENSION PROGRAM	α	1.588	58	202	225	916	158	135	33
4AE-4-2	1007E-4-2 DATE PALM REHABILITATION & IMPROVEMENT PRORBRAM	Œ	5,918	288	1.580	1.688	1.358	1.888	69	208
4AE-4-3	PROUISION OF INPUTS FOR EXPERIMENTAL PURPOSES	α	588	18	225	7.5	7.0	29	89	1.0
		-								
		-								
TOTAL	DEUELOPMENT BUDGET TOTAL		14,123	1.661	4.838	2.594	2,538	1.986	755	568
		_								

Table 5.2.15 Regional Budget of Agricultural Production Sector

	TANHETVOMINOR		66	12	000		36		36		100		188	-	243	202				263	
	TANITATVO		08	42	49		36		36		350		350		217	,		400		1.217	
	,		136	7.0	99		38		36		450		450		1.072	ч		200		1,272	
Referen	DALI I VE		96:	85	92		36	_	36		550		550		1.326					1,326	
	SHAROIYADAKHLIYADHAHIRA		204	105	66		36	-	36		709		700		1.640					1,640	
	BATINGH	į	680	350	330		36		36		2,700		2,700		6.116					6,116	
	MUSCAT		41	21	29		404	459	36		150		150		827			390		1,127	-
TOTAL	BUDGET	(1000RO)	1,360	200	699	0	99	456	250		5,000		5,000		12,060			006		12,960	
NAME OF PROJECT/PROGRAM			DOLLECTION AND ORGANIZATION OF AGRICULTURAL STATISTICS	HGRICULTURAL CENSUS	HUNDEL UPDATE OF IMPORTANT SCRICULTURAL STATISTICS	HGENICH TURG EXHIBITION AND EFSTIVE	1 7 7 1	PARTIE TION OF THE THOUSE THE FOUR EXHIBITION	Z DOMESTIC HEKICOL TONHL TESTIVHE		NHILLUNAL PRUJECT FUR PLENT PROTECTION AND ARRIGE SPRAY		HEKICULIUKHL IECHNOLUGY IKANSFER PROJECT TO FARMERS		NAR TOTAL			DEVELOPMENT & IMPROVEMENT OF PLANT QUARANTINE	1	DEVELOPMENT BUDGET TOTAL	The state of the s
FROUNCE	203 203 203 203 203 203 203 203 203 203		NAH-	NHE: 1 - 1	NATI - LAN	NAR-2	C GGN	00.00	3	000	2 - 1 - 1	600	7 LULE .				6	- 3HZ	7	Ē	

Table 5.2.16 Regional Budget of Livestock Sector - 5-Year Plan

PROJECT NAME OF PROJECT/PROGRAM	SR10.	TOTAL				REGIONWISE	SE		
		Bunger	MUSCAT	BATINGS	SHAROIYA	DAKHLIYA	рнянія	мизсат ваттиян (знавотуфраки) түфинантва (замивтуфизамра)	USANDOM
NLL-1 Rangeland Revesetation Project in		((1888R0)							
Region		2,352						2,352	
170	ч	352						388	
	ന	2.080						2.989	
NLL-2 Anima! Health & Disease Control Project		18,425	366	3,841	1,519	1.225	2.867	6,848	561
	α	1,975	18	285			1,385	170	205
NLL-2-1© Animal Clinics Improvements	Œ	1,188		189	୧୫	3.6	99	813	
NLL-2-2 @ Laboratory Development	ñ	699		386				882	
NLL-2-3(4) CCPP Vaceine Development	Û	69		26					
NLL-2-4億 National Daccination	a	8,882	266	2,221	1.066	388	1.866	3.139	266
ů.	R	3.665	98	752	363	928	358	1.050	20
NLL-2-60 Brucellosis Control in South	ക	621						521	
NLE-1 Livestock Extension Development		482	ហ	204	13	1.5	81	219	5
	a	150	ທ	38	18	15	\$:	88	B
· Demonstration of Using Equipment				7					
· Visual Extension							7		
stablis						-			-
NLE-1-20 Training Center Development	ങ	332		168				168	
							-		
INLR-1 Livestock Research Development		4,059		1.696		973		1.381	
oment of L	а	2.000		750		503		857	
NLR-1-2(2) Research Centers Management Consultancy	æ	2.056		946		473		631	
Vestock		6.371	1.0	148	7.2	66	52	5.992	:0
Company	а	1.518						1,516	
NLM-1-2の Cattle Fattering	a	: ୫ଜ						186	
Cut Meat Processing	Û	487						187	
Milk C	മ	1911		98	35	ଷ୍ଟ	32	1,283	
Hides and Skins Deve	Ç	192						192	
NLM-1-8မြီး Cattle Destocking Subsidy	σ	2.568						2,588	
larketi	ပ	388	16	8.4	27	34	95	117	12
NLE-8 Livestock abut Company Project	ع	1.856	376			(A)			
NLL-4 Small Farm Development Support Project		15.285	191	3.435	2.659	2.969	1.782	3.927	3.28
1 Smallholder Poultry Product	Œ	8.855		1.842	1.893	2.382	1.618	1.647	151
Vestock	α	6.378	191	1,593	764	637	764	2.238	6.
s for D	ы	99				36		38	
NLL-5 Livestock Specialized Services		1.222	9.5 2.5	308	147	122	147	428	37
ock Census	œ	524	 B	13.	63	.56	89	 	1.6
<u>@</u>	æ	55	લ	4	1~	9	t	13	છ
Marketing Su	Œ	143	7	36	<u></u>	14	1.1	о 69	4
NLL-5-2⊕ Consultancy Services(Study)	α	532	135	125	ଜ	58	89	175	<u>।</u>
Total		47.546	985	9.629	4,415	6,353	4.886	28.324	988
					•		,		
Percentage			2	20.3	e B	13.4	e .	42.7	() (9)

- 5-Year Plan Table 5.2.17 Regional Budget of Distribution Sector

Regional Budget of Agricultural Produce Processing Sector Table 5.2.18

| TOTAL | REGION | REGION | SHAROLYADAKHLIYADHAHIRA | JANUBIYAMUSANDAR | (1800BRO) | 204 | 2.652 | 765 | 714 | 510 | 153 | 182 2.626 518 2,779 765 1.209 466 128 1,184 3,925 173 1.614 10,474 2,626 1,134 Establishment of Agro-Industrial Complex for Processing of Dates. Limes and Tomatoes Establishment of Pickling and Vinegar-Processing Plant Establishment of Private Company for Agro-industry and Supply of Agricultural Inputs and Services Establishment of Coconut-Processing Plant NAME OF PROJECT/PROGRAM Coconut Farm Coconut-Processing Plant DEVELOPMENT BUDGET TOTAL PROJECT NUMBER

Table 5.2.19 Regional Budget of Inter-Sectoral Projects

OJECT	NAME OF PROJECT/PROGRAM	TOTAL				REG10N			
MBER		BUDGET	MUSCAT	BATINAH	SHARGIYADAKHLIYADHAHIRA JANUBIYAMUSANDAM	PAKHLIYA	DHAH1RA	ARNUB I YA	USANDAM
		(1000RO)			-				
1-	Integrated Agricultural Development Project in Nejd	13,242						13.242	
,	1) Pilot Farm (Saha)	1,655						1.655	
	2) Main Development Project (350 ha out of 450ha)	11,587						11,587	
2	Improvement and Maintenance of MAF Facilities	16,391	5,351	3,338	1.850	1,810	1,658	1.678	1.338
	1) Ministry Building	5,191	5,191						
	2) Office Building for Directorate General of Agriculture	1		1.258	1.258	1.258	1,250	1.558	1.258
	in & Regions								
	3) Separate Consolidated Allocation for All Consultancies	4.088	160	2.380	688	568	489	128	88
1.1	Citizen's Compensation against Natural Crisis	1.588	89	788	225	218	158	45	38
-2	Master Plan for Development of Date Palm Cultivation	688	24	312	96	84	69	18	12
TAL	DEUELOPMENT BUDGET TOTAL	32,333	5,435	4.422	2.165	2.184	1.868	14.975	1.372

Table 5.2.20 Budget Total by Finance Source - 5-Year Plan

REMARKS					
OTHERS			00 00		118
SELF FINONCE (
PRIUMTE			5.549 3.518 2.039	4,489 2,000 1,700	18.038
SHARED WITH PRIURTE	10 co		3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7.149 3.880 2.834 2.834	18,547
900					
1 (1888RO)	16.258		382		16.642
PAMAP				15.387 3.656 1.228 1.927	16.563
STATE GENERAL BUDGET	135,518 19,808 170 170 1,868 1	1.080 14.123 3.520 1.180	12, 959 1, 360 1, 360 1, 360 5, 800 46, 351 1, 252 1, 350 1, 350	18.172. 5.100 1.134 2.626	
<u>-</u>	151, 766 19, 826 1, 969 1, 969	1,688 826 14,123 1,588 1,198			8 -
TOTAL BUDGET (1988RO)	15.768 19.869 17.869 17.869 1.769 22.576 1.969 3.625 3.625 3.625 3.625 1.969	1,088 888 14,123 3,528 1,138		15, 39, 656 3, 656 1, 2224 10, 977 10, 198 5, 658 6, 730	32,333 13,242 16,991 1,500 600
T NAME OF PROJECT, PROGRAM		Establishment of Looust Survey a Soil Surveys a Soil Surveys a largovement and Development of Establishment of Development Sur Establishment of Development Sur Cattablishment of Researchers, Extensistaff	Intensive Extension Guidance Program Collection and Organization of Agricultural Stelistics Agricultural Technology Transfer to Farmera Project Bericultural Technology Transfer to Farmera Project Bevelopment and improvement of Plant Guurantine Rangeland Revogstation Project in Southern Region Animal Health and Disease Control Project Livestock Extension Bevelopment Project Livestock Inbut Commany Project Livestock Inbut Commany Project Livestock Inbut Commany Project Livestock Macketing Inprovement Project Livestock Specialized Services Program	Establishment of Wholesale Harket Supply and Demand Forecast of Agricultural Produce Establishment of Shipping Organization for Farmers Forlification of Panap Establishment, of Pervate Company for Agro-Industry and Supply of Agricultural Inputs and Services Establishment of Agro-Industrial Complex for Processing of Dates, Lines and Tomatoral Complex for Processing Establishment of Agro-Industrial Complex for Processing Establishment of Agro-Industrial Complex for Processing	Integrated Agricultural Development Project in Neid Improvement and Haintenance of NAF Facilities Artificial Rainfall Project Citizen's Compensation against Natural Crisis. Rester Plan for Development of Date Palm Cultivation
PROJECT	N N N N N N N N N N N N N N N N N N N	X X X X X X X X X X X X X X X X X X X	1	ND-1 ND-1 ND-2 ND-2 ND-2 ND-2 ND-2	N1-1 N1-2 0 0 1-1
SECTOR	Agricultural	Agricoltural Extansion	Agricultures Production Livestock	Distribution Agricultural Produce	inter-Sectoral

Table 5.2.21 Budget of Irrigation and Dam Sector by Finance Source - 5-Year Plan

REMARKS OTHERS SELF FINANCE SHARED WITH PRIVATE PRIVATE 900 16.258 16,250 107AL STATE GENERAL BUDGET 707AL HAF F 1 (1809AQ) 19,800 19,800 | NW-4 | Rocharce Demb | Scheme | 3.756 | 3.756 | 3.756 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.758 | 3.75 | NW-5 | Sub-Surface (Underground) Dams | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,580 | 2,58 NW-6-1 Repair and Maintenance of Aflaj 24.800 24.800 24.800 24.800 24.700 NW-6-2 Distribution System Improvement Pilot Project in 750 750 750 750 926 9.880 \$.880 9.888 3.888 \$.880 3.888 6.889 6.899 8.889 151,768 151,768 135,518 1,680 1,580 1,580 18,220 18,220 18,220 NW-2. Subsidy for New Irrigation System Project for 38,800hg 32,588 32,588 18,258 3,146 3,145 920 928 4.000 4.000 4 3,870 3,870 NW-10 Survey and Monitoring A 264 4.264 NW-10-1 Long-term Plan for Area! Photography and Ortho-photo 1.119 1.118 Halping Rabbing 3.698 3.146 178 Erosion Control and Protection of Agricultural Land NH-18-2 Establishmont and Operation of hydrological Monitoring Network for Recharge Dans NW-8 Springs NW-8-1 Improvement of Springs NW-8-2 Annual Maintenance of Open Channel for Spring NW-1 Improvement of Irrigation System and Centrally-Controlled Water-Distribution System Study Phase NA-3 Legal Framework for Agricultural Water Use NW-6-3 Improvement and Haintenance of Major Atlas Study
Construction NW-7-1 Subsidy for Reseir of Existing Open Wells
NW-7-2 Assistant Wells for Afle; NAME OF PROJECT/PROGRAM Study Phase Construction Phase TOTAL 6-MN

Table 5.2.22 Budget of Agricultural Research Sector by Finance Source - 5-Year Plan

PROJECT	NOME OF PROJECT/PROGRAM	10101	STOTE OF	a regarde	RINGET	(19880)		SHARED WITH PRIVATE	PRIVATE	3818	OTHERS	REHARKS	Γ
NUMBER		-		`⊢	-	08AF	20	PRIVATE		FINANCE			
		(188880)											
NDR-1	SUPPORT FOR AGRICULTURAL RESEARCH STATIONS	2,718	2,710	2.718									
NAR-1-1	NAR-1-1 MGRICULTURAL RESERRCH FACILITIES AT RUMAIS	680	800	800			1						
NAR-1-2	NAR-1-2 AGRICULTURAL RESEARCH FACILITIES AT JEMMAH	626	209	888	-								
NAR-1-3	NAR-1-3 AGRICULTURAL, RESEARCH FACIL:171ES AT SALALAH	675	675	675			-						
NAR-1-4	AGRICULTURAL RESEARCH FACILITIES AT SOHAR	୧୯୯	888	888									_
NAR-1-S	NAR-1-5 AGRICULTURAL RESEARCH FACILITIES AT SHARQIYA	235	235	235									
NAR-1-6	48R-1-6 AGRICULTURAL RESEARCH FACILITIES AT DHAHIRA												
	1				1								
NAR-2	ESTABLISHMENT OF NEW RESEARCH UNITS AND LABORATORIES	3.875	3.075	3,875									
NAR-2-1	AGRICULTURAL MACHINERY RESEARCH UNIT AT F	475	475	475									
NAR-2-2	TOXICOLOGY LABORATORY (RUMAIS)	235	235	235									
NAR-2-3		78	78	7.9	-			3.4					
NoR-2-4	NAR-2-4 CENTRAL SOIL, PLANT AND WATER ANALYSIS LABORATORY (RUMAIS)	608	808	889						11.75	11111	1	
NAR-2-5	NAR-2-5 LIBRARY AND DOCUMENTATION CENTER (RUMAIS)	246	240	248						1			
NAR-2-6	PLANT WATER REQUIREMENT DETERMINATION UNIT (SALALAH)	188	108	188		7							-
NAR-2-7	MEDICAL AND PERFUME PLANT RESEARCH UNIT (SALALAH)										A TOTAL SAME		
NA8-2-8	DISEASE AND PEST FORECASTING UNIT (RUMAIS)	189	108	186		2							
NRR-2-9	NAR-2-9 SALT TOLERANT PLANTS AND HALOPHYTES RESEARCH UNITS (RUHAIS)	288	200	288									
NAR-2-1	NAR-2-10HONEY BEE LABORATORY (RUDG(S)	1.48	67.	67.									ľ
NAR-2-1	NAR-2-11HONEY BEE RESEARCH UNIT (SALALAH)	55	85	85								1 1 1 1 1 1 1 1	
NAR-2-1	NORTOLIONAL BEEN RESERVED IN LA CLEBBOX	R.	6	E H	ľ				ľ	2			
NO.	TINDE TO THE TOTAL	000	000	200									Γ
		222	,	3									T
Т	CITY OF CHANGE CANCEL CANCEL OF THE PROPERTY O					1							T
S S	THE LAKE	1,040	9 10	040		1							
NAK-3-1	NAR-3-1 DEUELOPMENT OF BROBIC COFFEE EXPERIMENTAL FARM IN SALALAH	135	132	135									
NAR-8-2	DECELOPMENT OF NURSERIES AT RUMAIS AND BARKA	228	220	228									
NRR-3-3	DEUELOPHENT OF NURSERIES AT SOMAR	100	166	188									
NAR-3-4	NAR-3-4 DEVELOPMENT OF NURSERIES IN INTERIOR	380	380	388									
NAR-3-5	DEUELOPMENT OF NURSERIES IN SOUTHERN REGION	100	198	100							A 1000		
NAR-3-6	MAR-3-6 DEUELOPMENT OF NURSERIES AT MADI GURIYAT	1.15	115	115		1000							
NAR-3-7	MAR-3-7 DEUELOPHENT OF NURSERIES AT HUSANDAN	7.0	9.	7.0			10.0				100		
NAR-3-8	NAR-3-8 DEUELOPHENT OF NURSERIES AT SHARGIYA					يد دفي م	:						
NAR-3-9	NAR-3-9 DEUELOPHENT OF NURSERIES AT DHARTRA						100	-					
							**.				11.		
NAR-4	FORESTRY-IMPROUGHENT PROGRAM	1.865	1.009	1.888									
NARIS	ESTABLISHMENT OF LOCUST SURVEY AND CENTRAL UNIT (RUMAIS, ALL REGION)	1.988	1.838	1,888									
NAR-6	SOIL SURUEYS	800	888	888		,							
TOTAL	DEVELOPMENT BUDGET TOTAL	9.825	9.625	9,625									

Table 5.2.23 Budget of Agricultural Extension Sector by Finance Source - 5-Year Plan

	PATTAP PATTAP B B B	(1886 088F	008	SHARED PRIVATE	PRIUATE CAN	SELF OTHERS	S REMARKS
├ ─┼ ╶ ╏┈╏┈╏┈╏┈╏┈╏┈╏┈╏	┞╌┟┈┩┈┩┈╂┈╏ ╍╏ ╸╂ ╌╂ ┈╏	0898 ਜ	908	PRIVATE	FIND	ANCE	
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7.918 7.918	8			-		_	
1.588 1.588	6						
5.918 5.918	50					-	
500 500	0						
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14.123 14.123	9						
		L	-			_	
588 1.	3 Q & B						

Table 5.2.24 Budget of Agricultural Production Sector by Finance Source - 5-Year Plan

PROJECT	T NAME OF PROJECT/PROGRAM	TOTAL	SIATE GEN	GENERAL RUBGET	T (1898RD	BROS	SHARED WITH PRIVATE SELE	PRIVATE	SELF		PEMBRYS	
NUMBER		<u></u>		MAR PAMAR	25	F 0DB	PRIVATE		i C			
		(180880)		T	ŀ	L				-		Γ
NPA-1	COLLECTION AND ORGANIZATION OF AGRICULTURAL STATISTICS	., 360	1,360	1,360								-
NAB-1-1	HERICULTURAL CENSUS	786	706	760]
NR8-1-2	- 1	999	600	649				····]
9	THE STATE OF THE S		-		-							
7-442	HERICOLIOXEC EXHIBITION AND PESTIVE	780	760	760								
リントロン	HA-Z-1 INTERNALIONAL AGRICULTURE AND FOOD EXHIBITION	450	450	458	_					-		[
N68-2-2	NGA-2-2 DOMESTIC RERICULTURAL FESTIVAL	250	250	256	_							
	ì		-			-				-		ĺ
NAA-3	NATIONAL PROJECT FOR PLANT PROTECTION AND MERIAL SPRAY	5,000	5,808	5,003	_							
			-		_					-		
NAA-4	MERICULIURAL TECHNOLOGY TRANSFER PROJECT TO FARMERS	5,030	5, 998	5,002				-3				
				_								
					_		-					-
	NAR TOTAL	12,066	1 060/2:	12,050								
										_		
										~ .		
OEZ	DEVELOPMENT & IMPROVEMENT OF PLANT GURRRYTING	986	206	: ୧୫୬								
	The proof of the state of the s											
TOTAL	DEVELOPMENT BUDGET TOTAL	12,960	12,960 1	12,960								
							_		_	-		

Table 5.2.25 Budget of Livestock Sector by Finance Source - 5-Year Plan

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		1000	- 1	6:	.]	900	SHARE H.		ī.			
NLL-1 Rangeland Revegetation Project in		(1888RO)										Ι
		2.835	2,352									-1
1	α	470	352			-				118	UNDP (FAO)	7
NEL-1-2@ Grazing Control	œ	2,165	2.888		165	1				<u>.</u>		٦-
					-	1						7
e (16,425	16,425						-			T
	α	1.975	1.975		-							7
NLL-2-1(2) Anima! Clinics Improvements	α	1.138	1,188						_			
	σ	869	699		-							Γ.
NLL-2-3⊕ CCPP Vaccine Bevelopment	ပ	86	80									Γ-
	2	000	988.8	-								Т
NLI-2-5@ Supplies of Veterinary Equipment	a	3.000	800									Т
	, a	164	621	1								Т
	1	125		-	-							Т
Nine 1 teacher netton on Dave becase		0,00	000			T			-			T
T	,	4 6	3 6	1								T
	-	301	acı	-	-							Т
					1							T
			7									7
·Establishment of Demonstration Unit									-			
MLE-1-2@ Training Center Development	ဆ	332	332									Γ
												Γ
NLR-1 Livestock Research Development		4.050	4.858	12.7								Γ
7	a	2.688	2 973									7.
N.R-1-20 Research Centers Management Coscultance	a	2000	0.00									Ť
												T
N. X1 CARPOR MATER DO SERVICE DOC 904		0000	4000	331	10.			u T				Τ
	٥	000	0 4	2				1 466				Т
	נ נ	100						200		1.	2000	T
	n	918	186					90		. 1	Tarket : ng	Т
NED-1-345 CUT-18641 Processing Constitution of the second	Ö	974	487			200		84		. (537)	Market 109	H
NLM-1-4@-M-1k-Collecting and Processing	ന	2.322	1.161			3		1,161		(1:192	Marketing	
NLM-1-5@ Hides and Skins Development	0	384	192				1	36. 1		(262)	Marketing COMPANY	П
Num-1-6@.cettle Destocking Subsidy	Œ	2.588	1.588	1.888		2.5				(1,588)	Marketing COMPANY	
NLM-1-70 Marketing Promotion	၁	410	178	166				74		(26) *	Marketing COMPANY	
The second of th												Γ
N(L+3 L+vestock Input Company Project	m	8.795	1,359				3,398	2.839				Г
A TOTAL TO				-			1					Γ.
NLL-4 Small Farm Development Support Project		15,512	15,285									Γ-
NLL-4-10 Small holder Poultry Production	α	8.855	8.855									Γ.
NEL-4-2@ Intensive Livestock Production	Œ	6,597	6.378		227]
NIL-4-30 B. Services for Dainy Cow	6	88	6.0									Γ
					-							Γ
NLL-5 Livestock Specialised Services		1.222	1.222	-								Τ
NAG-1-10 Livestock Census	6	524	524									Г
NLL-5-10 National Disease Survey	00	55	55									Г
NLM-2 @ marketing Survey	a	143	143									Г
MLL-5-名④ Consultancy Services(Study)	α	588	588									Г
Total	ŀ	57.883	46,381	1,186	392		3,398	5.549		118		Γ
												ı

NOTE: "The government will subsidize the ammount through COMPANY.

** This ammount means the total required cost for the implementation of project.

Governmental share is total MAF budget(46.35!) and PANAP budget(1.165).

Table 5.2.26 Budget of Distribution Sector by Finance Source - 5-Year Plan

こうけつとしてしているかけつ	NAME OF PROJECT/FROUNDS	2 2 2 2	71.0	•	SIDIE GENERAL	KAL BUDGE	-		STARKED WITHOR COTE	135 - 31	- CITCES	KENDKKS	_
		_	BUDGET	TOTAL		PAMAP	OBAF	609	PRIUATE				
			(1896RO)		-								
1	ESTABLISHMENT OF WHOLESALE MARKET (STUDY)	α	322	328	-	322				_	_		
7	STUDY ON ESTABLISHING MHOLESALE MARKET		218	218	-	218	_						
	STUBY ON EXPANTION OF DISTRIBUTION UOLUME IN PAMAP		33	33	-	33							•
_	וא הסרו		-	1		1	-						_
-	THE PIL		82	192		82	-				_		
!													,_
ш	PILOT WHOLESALE DARKET	ď	524	524		524							_
	DPERATION OF PILOY WHOLESALE MARKET (SUPPORT BY CONSULTANT)		216	218	-	216							
			388	388		388	-			_			-
					_	_							,
	CONSTRUCTION AND OPERATION OF WHOLESALE MARKET	a	2.818	2.8:8	-	2.813		-		_			, . .
	CONSTRUCTION OF WHOLESALE MARKET		2,528	2.528		2.528					_		_
	PHASE-1 HUTTRAK		2.526	2.526		2.526							,
	CONSTRUCTION OF WHOLESALE MARKET (SUPERVISION BY CONSULTANT)		126	128		128	-						-
	1						-	 					_
	TRAINING STAFFS FOR OPERATION OF WHOLESALE MARKETS (SUPPORT)		158	158	-	158	-	ľ		-			,
_				_	-	-					-		-
_			3.656	3.656		3.856				-			_
_	BASIC DATA COLLECTING PROGRAM	ď	248	248	-	248					-		_
Lo	ASIC DATA COLLECTING PROGRAM (STUDY)		88	88		98							_
100	BASIC DATA COLLECTING PROGRAM (EQUIPMENT)	_	43	43		43							_
4	BASIC DATA COLLECTING PROGRAM (SUPPORT BY CONSULTANT)	_	47	47		47							
a.	PREPARATION & PUBLICATION OF SUPPLY AND DEMAND FORCOST		26	26		28							
=	INTRODUCTION FOR PRICING POLICY (STUDY)		26	26	_	28	-				-		_
_							_						_
-	PREPARATION & PUBLICATION OF SUPPLY AND DEMAND FORCAST (SUPPORT)	ď	144	144		144	_						
	MEASURES FOR ADJUSTMENT OF SUPPLY AND DEMAND (STUDY)	α	68	68		98					-		_
													٠.,
			454	444		444							
AL.	ESTABLISHMENT OF SHIPPING ORGANIZATION FOR FARMERS (STUBY)	ď	169	168		180	1			+			_,
44	SORESCH SON INTERCHANCE OF TAXABLE CONTOR	ľ	0.00	6		000		1		-			
4	STABLESHOOT OF SHIPTING CALCASTON ON CONTRACTOR OF CONTRACTOR OF SAME	1				000.	-	Ī					·,·
ш	POSTROCTORINGS OF THE POSTROCTOR TON TOWNERS OF THE POSTROCTOR TO					200		İ					Ŧ.
ш.		\downarrow	000	200	1	1,000	+	T					-
			1.220	900		1000	-						~~
	STRENGTH PROGRAM FOR MAIN DISTRBUTION CHANNELS IN PAMAP (STUDY)	a	897	468	-	468	-	ľ					•
12	CHANNELS IN PARAP	a	9,683	888		9.689	-						_
-					_								μ,
			18,877	18,877		6,877							
-	DEUGLOPMENT BUDGET :3TAL		15,397	15,387		15.397		-	_				٠,

Table 5.2.27 Budget of Agricultural Produce Processing Sector by Finance Source - 5-Year Plan

PROJECT	NAME OF PROJECT/PROGRAM	TOTAL	47	STATE GENERAL DUDGET	RAL DUD	130	60	SHARED WITHPRIUATE	RIURTE	SELF	OTHERS	REMARKS	
NUMBER		BUDGET TOTAL	TOTOT	MAF PE	PAMAP 0	08AF C	1d 800	PRIUATE		FINANCE			
		(1888R0)				-							
1 - dN	Establishment of Private Company for Agro-Industry and	18.108	5.188	5,188		-		3.900	2.669				11.4
	Supply of Agricultural Inputs and Services	•										 	
NP-2	Establishment of Agro-Industrial Complex for Processing of	5,868	1.134	1.134				2.834	1,780				
	Dates, Limes and Tomatoes		-			-							
													:1
N - 3	Establishment of Pickling and Winegar-Processing Plant	1.614	1.814	1.614	-						100		
							-						
NP-4	Establishment of Coconut-Processing Plant	4.736	2.626	2.628		-		1,315	789				
	Cocondt Fana	2,188	2,100	2,100									
	Coconut-Processing Plant	2.633	526	526				1.315	789		200		
				1.		-							
TOTAL	DEUELOPHENT BUDGET TOTAL	22,112	22,112 10,474	13.474				7.149.	4.489		7 TH		
						-							

Table 5.2.28 Budget of Inter-Sectoral Projects by Finance Source

PROJECT	T NAME OF PROJECT/PROGRAM	TOTAL	S	STATE GENERAL BUDGET	IERAL BL	DGET		SHARED WITHPRIUATE	HPR I UATE	SELF	OTHERS		REHARKS	
NUMBER		BUDGET T	TOTAL	MAF	Рамар	OBAF	800	PRIUATE		FINANCE				
		(1888RD)							-	1				
1-12	Integrated Aggicultural Development Project in Nejd	13.242 13	13.242	13.242				1.14	-					
	1) Pilot Farm (58ha)	1.655 1	1.655	1,655										
	2) Hain Development Project (358 ha out of 458 ha)	11.587 11	11.587	1.587										
			-											
2-1N	Improvement and Maintenance of MAF Facilities	16,991 16	6,991	16.991										
	1) Ministry Suilding	5,191 5	5.191	5.191						1				
	2) Office Suilding for Directorate General of Agriculture	7,809 7	7.880	7.803										
47	in 6 Regions													
	3) Separate Consolidated Allocation for All Consultancies 4,888	L	4,000	4.888										
										-		- 1		
01-1	Citizen's Compensation against Natural Crisis	1.588	1.580	1.588						_				
			-											
0 <u>-</u> ا	Mester Plan for Development of Date Palm Cultivation	888	888	6.00										
			-	. 1	-									
TOTAL	DEVELOPMENT BUDGET TOTAL	32,333 32	32,333	32,333										
			-											

Table 5.2.29 Time Schedule of Entire Agricultural Development

			Ì						
Set and	TOBI COO	TO CO	TOTAL	EXECUTING	.00.	300	SCHEDULE	100.	9000
	NURBER						-	_	
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			48.625	101			++		
•	NE-5	Sub-surface (Underground) Dams	2.590	HOF	13		++		
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		group to the properties of Aprice (grad	3,678			111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	4.	401.000 F 10003							Ī
	87-3N	Survey and Monitoring	4.264	HAF					
			9,625						
	NOR 1	Support for Agricultural Research Stations	2,710	301					
Research	NAR-2	Establishment of New Research Units and	3.875	797					
		Laboratorios			-		<u>:</u>		
	NOR-3	Development and Establishment of Experimental Farms	1.948	HAF					
-									
.1_	17007		100			1			
_L	T	Establish State of the State of	000	DM.		11			
	0 XXX	Parablianmont of Locast Survey and Central Jan.	1.8681	naF					
	-	Soil Surveys	888	HAF	:				
			14.123						
Agricultural	- HGX	improvement and Development of Extension Centers and	3.520	Tar				-	
Extension								1	
	2138	Motablidhaest of Development Support Commentation	1,190	FAH				-	
		r (DSCC)				-			
	NAE-3	Training of Redearchers, Extension Staff and Statistics	1.583	HAF					
	~	Staff						-	
	NAE-4	Intensive Extension Guidance Progrem	1.918	ግጻ <i>ይ</i>					
			12,960					_	
-	1-691	Collection and Organization of Agricultural Statistics	1.358	ਸਕਸ					
Production		Apricultural Exhibitions and Festivals	198	NGE					
	1	National Project for Plant Protection and Serial Seraujne	5.883	119.5					
1.	NBG-4	Dorigon Lune Joobsoloou Transfer to Haragan Droison	200	nge					
•	Т	10 10 10 10 10 10 10 10 10 10 10 10 10 1	000	ii C E					
	1	OCCUPATION TO THE STATE OF THE PROPERTY OF THE	200	1131			-	l	T
			47.545					$\frac{1}{1}$	
L'.vestock		Range and Revecetation Project in Southern Region	2.352	MAF. OBAF					
	NL1-2	Anima! Health and Disease Control Project	16.425	FAR					
	N1E-1	Livestock Extension Development Project	482	Age					
	N-8-1	Licestock Research Decelopment Ordinor	4.056	RAN		***			
		10000 L 1100000 10 10000 100000 100000 10000000	2	21011100 00000 100					
-1		Livestock Herketing jabrovement Project	2	-1			Ц		
1	NE L = 3	Livestock input Company Project	1,359	HAF, PRIURIE				1	
	NLL-4	Small Farm Dovelopment Support Project	15.285	MAF. OBAF					
	NLL-5	Livestock Specialized Services Program	1.222	MAF					
			15,397						
Distribution	1-QN	Establishment of Wholesale Market	3.656	РАНАР					
	ND-2	Ty and Demand	444	ранар					-
	e-du	Establishment of Shipping Organization for Farmors	1,220	PAMAP	-				
-	ND-4	Fortification of Panap	10.01	Pattag					
			18 474					_	
Control turn December	100	The sale is the sale of Drives Conson Conson Conson Conson	200	VANDERS TANT COMPANY				-	
or or or or or		Supplied Of Rothing Farty Toping and April 004				-			
	0.00	Dia Candilla		UNGOROU TROT ILIONGO					Ī
		Entertainment of Apropriate and Code of Code o		CONSTRUCTION .			1.		
•	202	Decree of the second of the se	, 0	SACRET TORON	-14			-	Ī
	2	Establishment of Proxima and Cinagarity occasing Figure	2000	THE COURT OF THE COURT					
	A PER	Establishment of Coconti-Processing Plant	2.626	CONSULTEN COUPLING	_				
			32,333					1	
Inter-Sectoral	į	Integrated Agricultural Development Project in Neid	13.242	nar					
	- 1	Improvement and Maintenance of MAF Facilities	16.331	naf				-	
	- 1	Artificial Rainfall Project	٥	HAF			-		
	- 1	Citizen's Compensation against Natural Crisis	1,566	NAF					
	2-10	Haster Plan for Development of Date Palm Cultivation	688	HAF				_	
							-		
Total			277,976						
					_	_			

Table 5.2.30 Time Schedule of Irrigation and Dam Sector - 5-Year Plan

\$ 000 000	S COCCCC FOLL COC TO TAKE	١	01001		ľ	011111111111111111111111111111111111111		
NUMBER	5	BUDGET	POENCY : NO	1881	1992	1993	1994	1995
		(100080)						
NE - 1	Improvement of freigation System and Centrality-	19,888				1		
	Controlled Water-Distribution System							
	Study Phase (P/S, F/S)	1.582	MAF					
	pilot Project	18,226	пағ					
		-						
NG-10	Schulde for Net irrigation States Project for 88, 980hs	16.250	HAF, 089F	0845				
2172		. 70	₩OE					T
2	ביים ביים ביים ביים ביים ביים ביים ביים	2	1				T	T
NH-A	Recharge Dams	48.825	MAF					
NU-4-1	Groundwater-Recharge Scheme						1	
	Study Phase	3,758	HAF					
	Construction Phase	38.298	HAF					
NW-4-2	Maintenance and Improvement of Existing and Newly	2,325	HAF					
	Constructed Dams							
NU-4-3	Recharged Water Effective Use Pilot Project (Study)	250.	MAF					
NELATA	Identification of New Groundwater-Recharge Schemes	3.588	MAF					
8-48	Sub-Surfece (Underground) Dams	2,598						
	Reconnal stance Study	7.5	паЕ					1
		150	TAF					
	Feasi 511 ity Study	928	TAR					
	Pilot Project(Construction)	1 900	MAF					
	Conservation and nontrolled	2	TAR					
Ø-32		20 678						
1-8-NN	Sepair and Maintenance of Office	24.888	HAF		1 1 1 1			
NW-8-2		758	HAF					
	Oasis(Study)							
8-8-N	Improvement and flaintenance of Hajor Aflaj		_					
	study Study	828						
	Construction	4.965	HAR		1 1 1 1 1 1 1			
200		000	HOR				100	
N-7-1	サー・イン のもくし での・・サーンは しく しょべのもの しのい こかいずんせい	200	ugx					
NI-7-2	Desirent to line for Dries	6.908	195			$\tau \tau$		
8-32	S	1,969						
10 - 32 Z	Secinal of Marians	1.750	-1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
N	Runual Maintenance of Open Channel for Spring	213	i.					
0 - 3 X	Erosion Control and Protection of Apricultural Land	3.878						
	against Floods							
.:	Study Phase	279	NAF					
	construction Phase	3,689	MAF					
NU-10	3	-	1					
	Table 100	811:1						
NU-18-2		3.146	HQE			1 1 1 1 1		
	A SECTION OF SECTION S							
a la	מבסברסטשבאו מממתבו נמנטר	135.518						
-				-				

Table 5.2.31 Time Schedule of Agricultural Research Sector

- 5-Year Plan

PROJECT	NAME OF PROJECT/PROGRAM	TOTAL	EXECUTING			SCHEDULE		
NUMBER		BUDGET	AGENCY	1891	1992	1893	1994	1895
		(186980)				1 1 1		
NAR-1	SUPPORT FOR AGRICULTURAL RESEARCH STATIONS	2,718						
NAR-1-1	NAR-1-1 AGRICULTURAL RESEARCH FACILITIES AT RUMAIS	989	HAF					
NAR-1-2	NAR-1-2 AGRICULTURAL RESEGRCH FACILITIES AT JEHMAH	688	HAF					
NAR-1-3	AGRICULTURAL RESEARCH FACILITIES AT SALALAH	675	ARF					
NAR-1-4	AGRICULTURAL RESEARCH FACILITIES AT SOHAR	688	MAF				1	
NAR-1-5	٦.	235	RAF					
NAR-1-6	NAR-1-6 AGRICULTURAL RESEARCH FACILITIES AT DHAHIRA		naF.					
NAR-2	ESTABLISHMENT OF NEW RESEARCH UNITS AND LABORATORIES	3.075						
NAR-2-1	_	475	AAF					
NAR-2-2	0	238	MAF					
NAR-2-3	NAR-2-3 SEED AND TUBER PRODUCTION RESERVEH UNIT (RUMAIS)	18	HAF					
NAR-2-4	NAR-2-4 (CENTRAL SOIL: PLANT AND WATER ANALYSIS LABORATORY (RUMAIS)	. 669	MAF					
NAR-2-5	MAR-2-5 LIBRARY AND DOCUMENTATION CENTER (RUMAIS)	240	RAF					
NAR-2-6	NAR-2-6 PLANT WATER REGUIREMENT DETERMINATION UNIT (SALALAH)	199	MAF		1 1 1 1 1 1			
NAR-2-7	MEDICAL AND PERFUNE PLANT RESEARCH UNIT (SALALAH)		HAF					
NAR-2-8	FOR	189	HAF					
NAR-2-9	SALT TOLERANT PLANTS AND HALOPHYTES RESEARCH UNITS (RUMAIS)	288	HAF					
NAR-2-10	WAR-2-ICHONEY BEE LABORATORY (RUMAIS)	140	MAF					
NAR-2-11	HONEY SEE RESEARCH UNIT (SALALAH)	85	MAF				,	
NAR-2-12	NAR-2-12HONEY BEE RESEARCH UNIT (JEMMAH)	20	MAF					
NAR-2-13	DATE PALM RESEARCH UNIT (RUMAIS)	ଥେଉଛ	MAF					
NAR-3		1.848						
NAR-3-1	ARABIC COFFEE EXPE	135	MAF.					
NAR-3-2		220	HAF					
NAR-3-3		198	HAF					
NAR-3-4	NAR-3-4 DEUELOPMENT OF NURSERIES IN INTERIOR	200	MAF					
2002	NURSERIES IN	198	MAF					
3-8-80	NAR-3-6 DEUELOPMENT OF EXPERIMENTAL FARM AT WADI QURIYAT	115	MAF					
NAR-3-7	EXPERIMENTAL FARM	22	naF					
8-8-8UN	EXPERIMENTAL FARM AT	ì	MAF					
NAR-3-9	NAR-3-9 DEUELOPMENT OF EXPERIMENTAL FARM AT DHAMIRA		паF					
1								
Nag-4	FORESTRY-IMPROUEMENT PROGRAM	1.000	78F					
ı								
S-RAN	ESTABLISHMENT OF LOCUST SURVEY AND CENTRAL UNIT (RUMAIS, ALL REGION)	1.000	HAF				-	
-1								
NAR-6	SOIL SURUEYS	808	RAF					
T0TAL	DEVELOPMENT BUDGET TOTAL	9,825						

Table 5.2.32 Time Schedule of Agricultural Extension Sector - 5-Year Plan

PROJECT	NAME OF PROJECT/PROGRAM	TOTAL	EXECUTING			SCHEDULE		
NUMBER		BUDGET	AGENCY	1991	1992	1993	1994	1995
		(1.888RO)				:		
NAE- :	IMPROUEMENT AND DEUELOPMENT OF EXTENSION CENTERS AND FACILITIES	3.528						
NAE-1-1	ESTABLISHMENT OF EXTENSION CENTERS IN REMOTE AREA	488	MAF	1 1 1 1 1 1 1 1 1				
NAE-1-2	NAE-1-2 IMPROUGHENT OF EXTENSION CENTER FACILITIES	1,628	HAF					
NAE-1-3	NAE-1-3 DEVELOPMENT OF AGRICULTURAL TECHNOLOGY INFORMATION UNITS (ATIU)	1.500	HAF					
NAE-2	ESTABLISHMENT OF DEVELOPMENT SUPPORT COMMUNICATION CENTER (DSCC)	1.198	HAF					
NDE-3	TRAINING OF RESEARCHERS: EXTENSION STAFF AND STATISTICS STAFF	1.583	МАЕ					
						A Company of the Company		
NAE-4	INTENSIVE EXTENSION GUIDANCE PROGRAM	7.916					7 · · · ·	
NAS-4-1	NAE-4-1 SUPPORTING KEY FARMER EXTENSION PROGRAM	1.568	HAF		1111111			
NAE-4-2	NACE-1-2 DATE PALM REHABILITATION & IMPROVEMENT PRORGRAM	5.918	HAF		1 1 1 1 1 1			1111111
NAE-4-3	NAE-4-3 PROUISION OF INPUTS FOR EXPERIMENTAL PURPOSES	588	FAR					1 1 1 1 1 1 1
								3. 3. 4. 1. The
TOTAL	DEUELOPMENT BUDGET TOTAL	14,123						
					1			
			A STREET, SQUARE, SALES					

Table 5.2.33 Time Schedule of Agricultural Production Sector - 5-Year Plan

1995	760	SCHEDULE 1993	1992	1991	MAF MAF MAF MAF MAF MAF	101AL. BUDGET. (1000RD) 1,360 1,360 5,000 5,000 5,000 12,060		NAMBER NUMBER NUMBER NAM-1-1 GOLLECTION AND ORGANIZATION OF AGRICULTURAL STATISTICS NAM-1-2 GORICULTURAL CENSUS NAM-1-2 MAUNUAL UPDATE OF MADORIANT AGRICULTURAL STATISTICS NAM-2-1 INTERNATIONAL EXHIBITION AND FESTIVAL NAM-2-1 INTERNATIONAL AGRICULTURE AND FOOD EXHIBITION NAM-2-2 DOMESTIC AGRICULTURAL FESTIVAL NAM-3 NATIONAL PROJECT FOR PLANT PROTECTION AND AGRIAL SPRAY NAM-4 AGRICULTURAL TECHNOLOGY FRANSFER PROJECT TO FARMERS NAM-1 DEVELOPMENT & IMPROVEMENT OF PLANT QUARANTINE	PROJECT NUMBER NUMBE-1-1 NAR-2-1
						12 968		DEVELOPMENT BUDGET TOTAL	TOTAL
								TOTAL REPORTS AND INTEREST	T
					A 14 14 14				
	1				MAF	906		& IMPROVEMENT OF PLANT QUARANT	
				2		4			
1.00	F. 100 Sept.								
						2007			
						12.868		NAA TOTAL	
									100
					MAF	5,000		은	
								그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	
			ı	i i	HAF	2,000		PROTECTION AND AERIAL	
		1 1 1 1 1 1			MAF	250		DOMESTIC AGRICULTURAL FESTIVAL	NAA-2-2 I
				1 1	H.F.F	450	-	}	
						200		AGRICULTURAL EXHIBITION AND FESTIVAL	
		1 - 1 - 1 -			MAF	999		RNNUAL UPDATE OF IMPORTANT AGRICULTURAL STATISTICS	NAR-1-2 F
		1 1			HUF	700		AGRICULTURAL CENSUS	NAR-1-1 F
						1,360		COLLECTION AND ORGANIZATION OF RERICULTURAL STATISTICS	
						(1000RD)			
1995	1994	1993	1992		REENCY	BUDGET	-		NUMBER
		SCHEDULE			EXECUTING	TOTAL			PROJECT

Table 5.2.34 Time Schedule of Livestock Sector - 5-Year Plan

Project		00 161	1981	1892	1993	786	1962
N. L1	Rangeland Revegetation Project in						
	uthern R						
NLL-1-1	(C) Estabilishment of Rangeland Management	ณ				-	
NLL-1-2	Grazing Control	т			1 1 1 1 1		
2-114	Animal Health & Disease Control Project						
	of New Quarantines	3				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
N-1-2-1	SS	r,					
N-L-2-2	⊕ Laboratory Development	æ				1	1 1 1
	⟨⊕ CCPP Uscoine Development.	m			1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	
1	(National Usceinstion	1			1 1 1 1 1	1 1 1 1 1	111111
NLL~2-5	Supplies of Veterinary Eggiogent			1 1 1 1 1			
NL1~2~6	Brucellosis Control in	┯~	1 2 2 3 3				
		7-					
NLE-1	Livestock Extension Development						
NLE-1-1	(1) Extension Method [mprovement	v	1 1 1 1		I.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1
	Demonstration of Using Equipment						
	· Cisual Extension						
	· Establishment of Demonstration Unit						
NLE-1-2	😩 Training Center Development	1					
NLR-1	Livestock Research Development						
NLR-1-1	(d) Development of Livestock Research Centers	S					
NLR-1-2	(2) Research Centers Management Consultancy	9			1		1
NLM-1	Livestock Marketing improvement Project						
NLM-1-1		ın		1 1 1 1 1			
N-1-2	Cattle Fattening	O1					
NLM-1-3	i∰ Cut Meat Processing	81					
N-1-4	@ Milk Collecting and Processing	10			777		7
NLM-1-5	Hides and Skins Deve	3					1
9-1-WIN	i⊜ Cattle Destocking Subsidy						
NLM-1-7	1 1	uγ				2 2	
-	-	,					
311	C-IVENTOOK INDUIT COMPANY TTO ACT	N					
NLL-4	Small Farm Development Support Project						
N1 L - 4-1		6					
NL1-4-2		3			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
NLL-4-3	A.I. Services for D	1					
NLL-5	Livestock Specialized Services	1					
N8A-1-1	① Livestock Census	1					
N-1-5-1	්ලී National Disease Survey	જ		1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
N-M-3	(a) Marketing Survey	-	1 1 1 1				
		П					

Table 5.2.35 Time Schedule of Distribution Sector - 5-Year Plan

DESCRIPTPROJECT	PROJECT	NAME OF PROGRAM/PROJECT	TOTAL	EXECUTING		*	SCHEDULE		
NUMBER	NUMBER		딍	AGENCY	1991	1982	1993	1994	1995
			(RO 1.888)			-		-	
1-0X	ローに名	ESTABLISHMENT OF WHOLESALE MARKET (STUDY)	328			-		-	
	NH-1-1	STUDY ON ESTABLISHING WHOLESALE MARKET	218	PAMAP					
	NH-1-2	STUDY ON EXPANTION OF DISTRIBUTION UCLUME IN PAMAP	33	PAMAP					
	NH-1-8	IMPLEMENTATION ON EXPANSION OF DESTRIBUTION COLUME IN PAMAP		PAMAF					
	NM-1-4	<u>-</u>	162	PAMAP					
	NH-2	PILOT WHOLESALE MARKET	524						
	NM-2-1	OPERATION OF PILOT WHOLESALE MARKET (SUPPORT BY CONSULTANT)	216	РАМАР					
	NM-2-2	ARKET	308	PAMAF					
	NI-3	CONSTRUCTION AND OPERATION OF WHOLESALE MARKET	2.818						
	NM-3-1	CONSTRUCTION OF WHOLESALE MARKET	2.526	PAMAP	:	. 1			
		PHASE-1 MUTTRAH						_1_	
	21-3-2	CONSTRUCTION OF WHOLESALE MARKET (SUPERVISION BY CONSULTANT)	126	PAMAS			-		
	8-8-42	GSTAF	158	PAMAP		100			1 1 1 1
	SUBTOTAL		3.656			4 44 4			
ND-0	NT-A	BASIC DATA COLLECTING PROGRAM	248			, .	1	11	
	21-4-1	BASIC DATA COLLECTING PROGRAM (STUDY)	86	PAMAP					
	NH-4-2	BASIC DATA COLLECTING PROGRAM (EQUIPMENT)	43	PANA	-				
	NH-4-3	RAM	47	PAMAS			1 1 1 1 1 1		
	4-4-EX	PREPARATION & PUBLICATION OF SUPPLY AND DEMAND FORCAST	26	Panas					
	S-9-EN	OR PRICING POLI	26	Panap					1.0
							Î		
	NH-S	PREPARATION & PUBLICATION OF SUPPLY AND DEMAND FORCAST (SUPPORT)	144	PAMAP					
		OPERATION FOR PREPA. & PUBLI. OF SUPPLY AND DEMAND FORCAST		рапар					
·-	N7-6	MEASURES FOR ADJUSTMENT OF SUPPLY AND DEMAND (STUDY)	89	PANAP					
	SUBTOTAL		444						
ND-3	NH-7	SHIPPING	160	Parkip					
	8-12	OF	1,060						
	NN-8-1	ESTABLISHMENT OF SHIPPING ORGANIZATION FOR FARMERS (SUPPORT)	99	Pance					
-	S-8-NN	ESTABLISHMENT OF SHIPPING ORGANIZATION FOR FARMERS (EQUIPMENT)	1 696	PAMED			+		
	1								
	SUBTOTAL		1,220						
4-0N	0-LZ	STRENGTH PROGRAM FOR MAIN DISTRBUTTON CHANNELS IN	897	d: Wod					
· ,	N - 1.0	CHANNELS IN PAHAP	689 6	РАППР					
· ·									
	SUBTOTAL	_	18,877				5. 61 61		
TOTAL		DEVELOPHENT BUDGET TOTAL	15.397						
			-						
							-		

Table 5.2.36 Time Schedule of Agricultural Produce Processing Sector - 5-Year Plan

PROJECT	NAME OF PROJECT/PROGRAM	TOTAL	EXECUTING.			SCHEDULE	m	
NUMBER		BUDGET AGENCY	RGENCY	1981	1992	1883	1994	1995
		(1888RO)		,				:
NP-1	Establishment of Private Company for Agro-Industry and	5,188						
	Supply of Agricultural Inputs and Services							
	1)F/S and D/D for the establishment of company (study)		Consultant					
	2) Construction, introduction of equipments, etc.		Company		111111			
								12 m
NP-2	Establishment of Agro-Industrial Complex for Processing of	1,134						:
	Dates, Limes and Tomatoes							
	(yeard Don of dates processing plants (study)		Consultant					
	2)Construction of dates processing plants		Company					
		:		_				
NP-3	Establishment of Pickling and Vinegar-Processing Plant	1.614						
	1) D/D of pickling and vinegar pilot plants (study)		Consultant					
	2)Construction of pilot plants		Company					
		7						
NP-4	Establishment of Coconut-Processing Plant	2,626						
	Coconut Farm	2,100	HG.FI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			
-	Coconut-Processing Plant	526						
	1)D/D of coconuts processing plant (study)		Consultant					
	2)Construction of coconuts processing plant		Company	1				
TOTAL	Coconut-Processing Plant	18,474						

Table 5.2.37 Time Schedule of Inter-Sectoral Projects

- 5-Year Plan

ROJECT	NAME OF PROJECT/PROGRAM	TOTAL	EXECUTING	274		SCHEDULE	w	
UMBER		BUDGET	AGENCY	1981	1992	1993	1994	1995
		(1000RO)						
1-1	Integrated Agricultural Development Project in Nejd	13,242						
	1) Pilot Farm (5@ha)	1,655	МАР				-	
	2) Main Development Project (350 ha out of 450 ha)	11,587	MAF					
			٠.					
2-1	Improvement and Maintenance of MAF Facilities	16,991						
	1> Ministry Building	5,191	MAF					
	2) Office Building for Directorate General of Agriculture	7.800	NAF					
	in 6 Regions							
	3) Separate Consolidated Allocation for All Consultancies	4.038	MAF				TT	
	Citizen's Compensation against Natural Crisis	1,508	MAF					
2-1	Master Plan for Development of Date Palm Cultivation	688	MAF					
						-		
OTAL	DEVELOPMENT BUDGET TOTAL	32,333						